2017 Regular Session

The Florida Senate

COMMITTEE MEETING EXPANDED AGENDA

APPROPRIATIONS SUBCOMMITTEE ON THE ENVIRONMENT AND NATURAL RESOURCES Senator Bradley, Chair Senator Book, Vice Chair

	MEETING DATE: TIME: PLACE:	Wednesday, January 10:00 a.m.—12:00 no 301 Senate Office Bui	on	
	MEMBERS:	Senator Bradley, Chai Stewart	ir; Senator Book, Vice Chair; Senators Bra	ynon, Hukill, Hutson, Mayfield, and
ТАВ	BILL NO. and INTR	ODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
	Workshop - Discussion and testimony relating to the options for reducing harmful Lake Okeechobee discharges and Everglades restoration:			
1	Presentation on Lake Okeechobee Discharges by Senate Staff			Presented
2	Presentation by the U.S. Army Corps of Engineers			Presented
3	Presentation by the Department of Environmental Protection			Not Considered
4	Presentation by South Florida Water Management District			Presented
5	Presentation of the findings of the University of Florida Study on Options to Reduce High Volume Freshwater Flows to the St. Lucie and Caloosahatchee Estuaries and Move More Water from Lake Okeechobee to the Southern Everglades			
6	Presentation by Environmental Advocates			Not Considered
7	Presentation by Representatives of Agricultural Landowners in the Everglades Agricultural Area			ral Not Considered
8	Presentation by Environmental Engineering and Water Resources Management Scientist			st Presented
9	The committee intends to provide 30 minutes for public comment, time permitting. Each speaker's time may be limited based on time restrictions.			Discussed

Other Related Meeting Documents

COMMITTEE MEETING EXPANDED AGENDA

Appropriations Subcommittee on the Environment and Natural Resources Wednesday, January 11, 2017, 10:00 a.m.—12:00 noon



Lake Okeechobee Discharges

Appropriations Subcommittee on the Environment and Natural Resources Senator Bradley, Chair January 11, 2017 **Environmental Preservation and Conservation Committee**

Ashley Istler

CENTRAL & SOUTHERN FLORIDA PROJECT

Historic flow >>

From about 5,000 years ago until the early 1900s, fresh water covered the lower half of Florida, flowing unimpeded from the Kissimmee River Into Lake Okeechobee, then south through the Everglades to Florida Bay.



Current flow >>

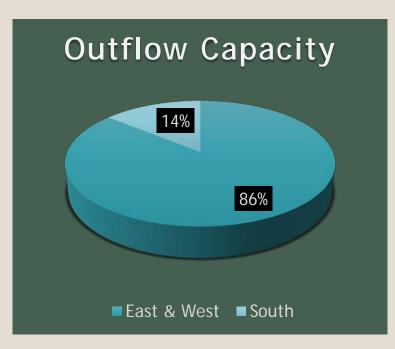
During the past century, the U.S. Army Corps of Engineers dug hundreds of miles of canals and drained over half of the 11,000square-mile Evergiades to meet the demand of developers and farmers for dry land, fresh water and flood control. The drastically altered system resulted in unnatural and harmful flow ways that include sending water from Lake Okeechobee through the St. Lucle Canal and Estuary and the Caloosahatchee River.



CENTRAL & SOUTHERN FLORIDA PROJECT

Inflow vs. Outflow Capacity:

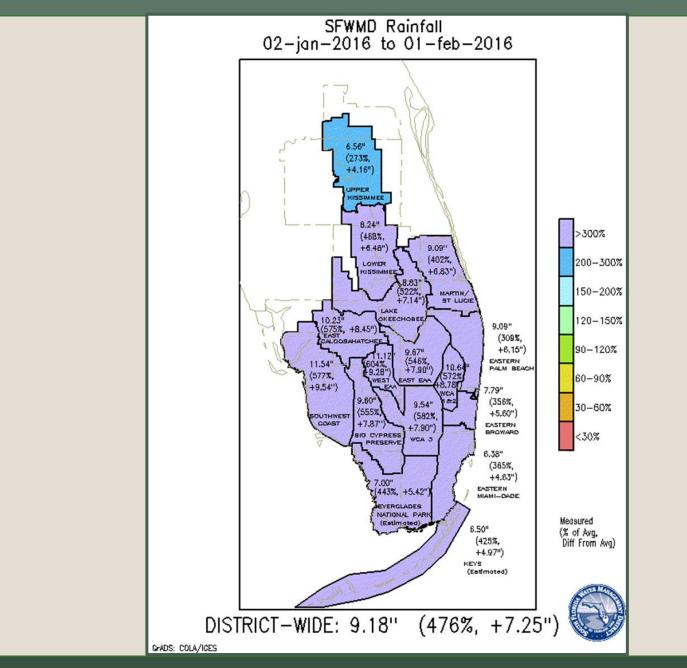
 The lake fills up much faster than it can drain



Unintended Consequences:

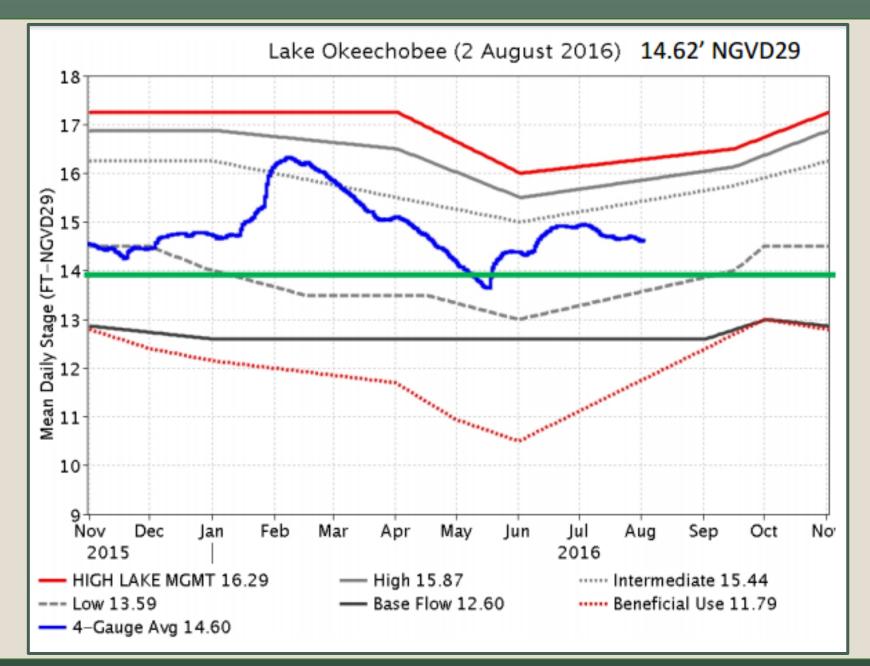
- Extreme fluctuations in high and low water levels in Lake Okeechobee
- Extreme fluctuations between too much and too little freshwater discharged into the coastal estuaries
- Detrimental hydrological conditions in freshwater wetland habitats
- Unsuitable freshwater flows to Florida and Biscayne Bays and the Lake Worth Lagoon

RECORD RAINFALL



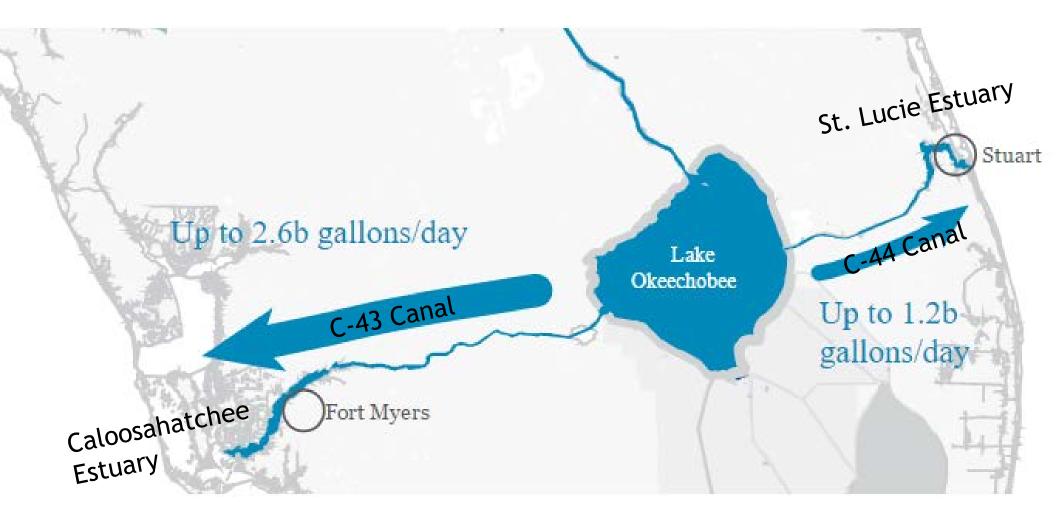
SFWMD, Monthly Historical Rainfall, 01/16

LAKE OKEECHOBEE LEVELS



SFWMD, Ecological Conditions Update, 8/4/16

DISCHARGES BY DESIGN



Sun-Sentinel, Draining Problem, 3/11/216

ST. LUCIE INLET



St Luice Inlet 5-10-16

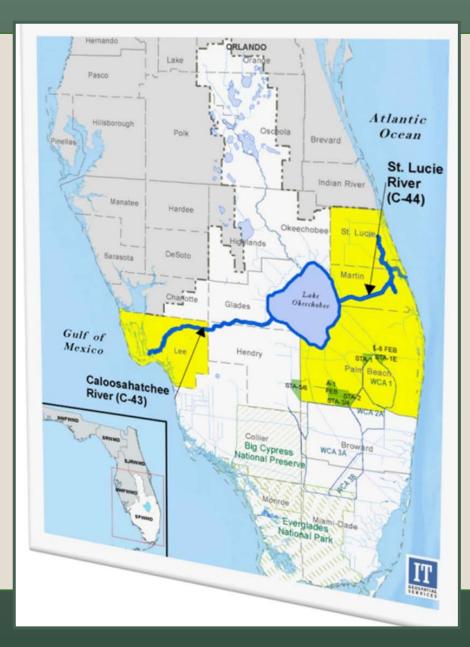
CALOOSAHATCHEE

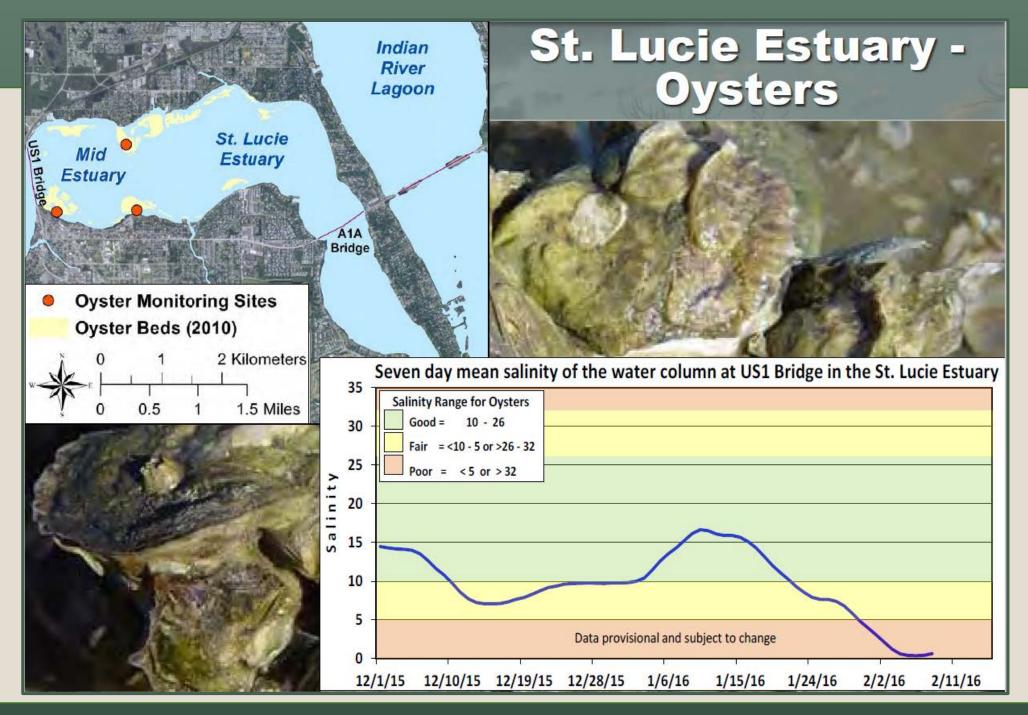


Sun-Sentinel, Draining Problem, 3/11/16

EFFECTS OF DISCHARGES

- Low salinity conditions
- Accumulation of mucklike sediments
- Loss of seagrass habitat
- Decline in oyster populations



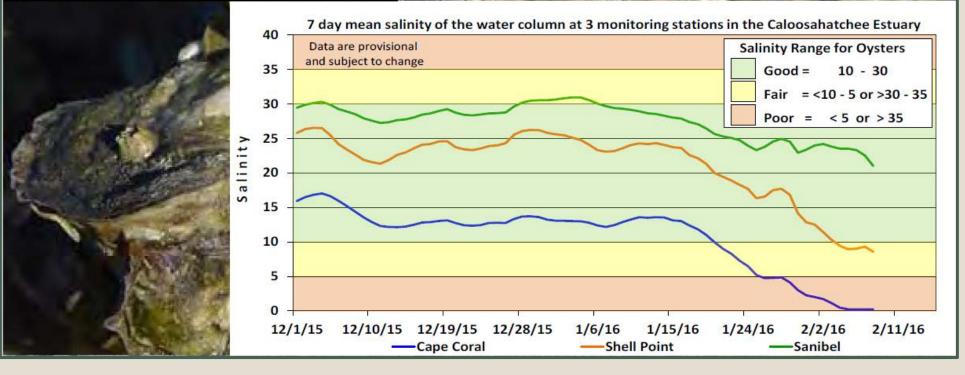


SFWMD, Ecological Conditions Update, 2/11/16



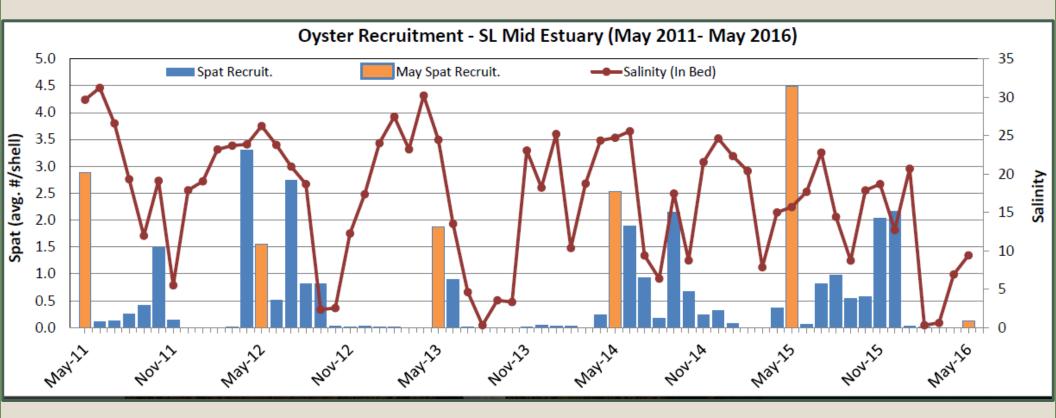
Caloosahatchee Estuary -Oysters





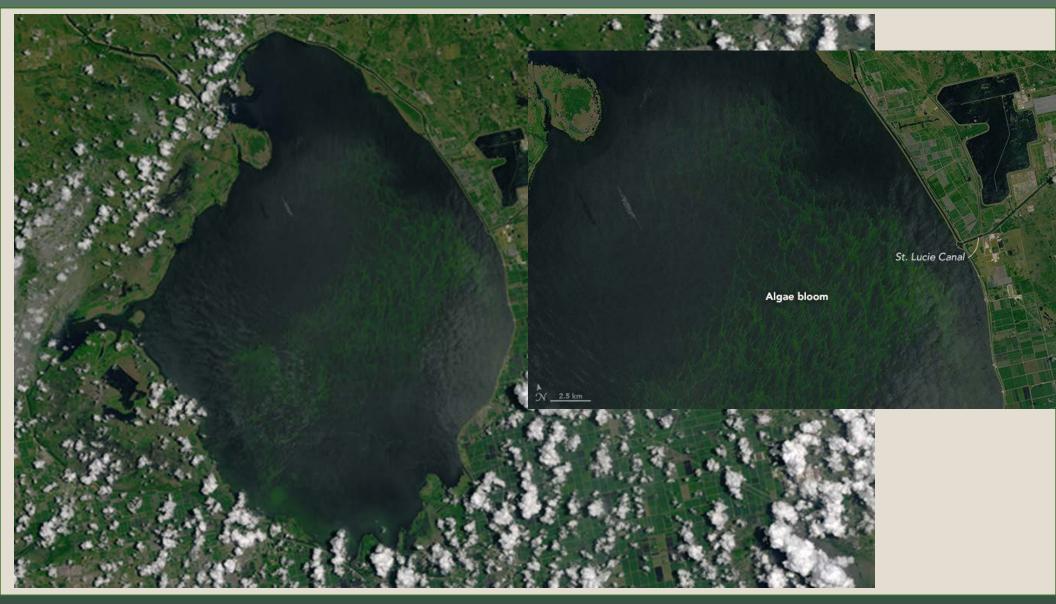
SFWMD, Ecological Conditions Update, 2/11/16

ST. LUCIE ESTUARY



SFWMD, Ecological Conditions Update, 6/9/16

LAKE OKEECHOBEE ALGAE BLOOM



NASA Earth Observatory images of algae bloom on Lake Okeechobee July 2, 2016.

ST. LUCIE RIVER



S-80 STRUCTURE



ST. LUCIE ESTUARY



CENTRAL MARINE



Photos by MCTV's Bob Hogensen

CENTRAL MARINE



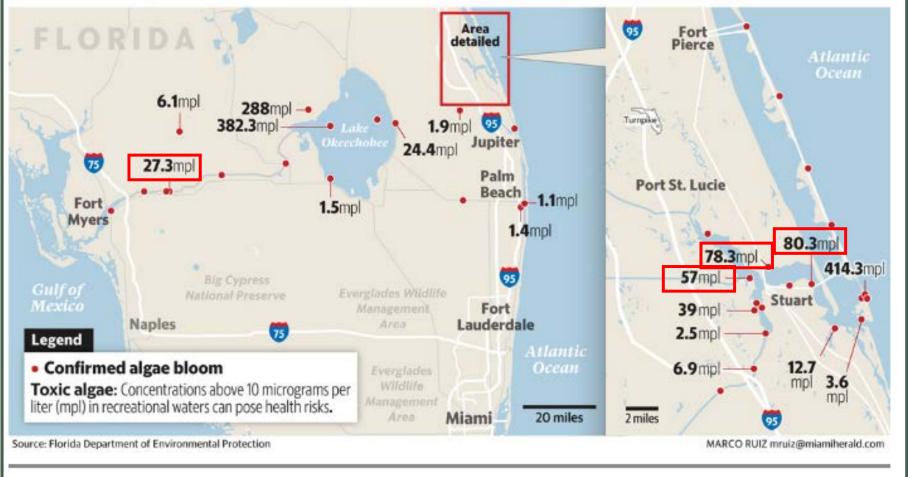
CENTRAL MARINE



TOXIC ALGAE SAMPLING & RESULTS

Where the slime is

From May 18 to June 30, the latest data available, state survey crews have confirmed algae blooms in at least 44 locations across a swath of South Florida, with the worst conditions in waterways linked to the St. Lucie River, which has been fouled by a steady flow of fresh, nutrient-laden water from Lake Okeechobee.



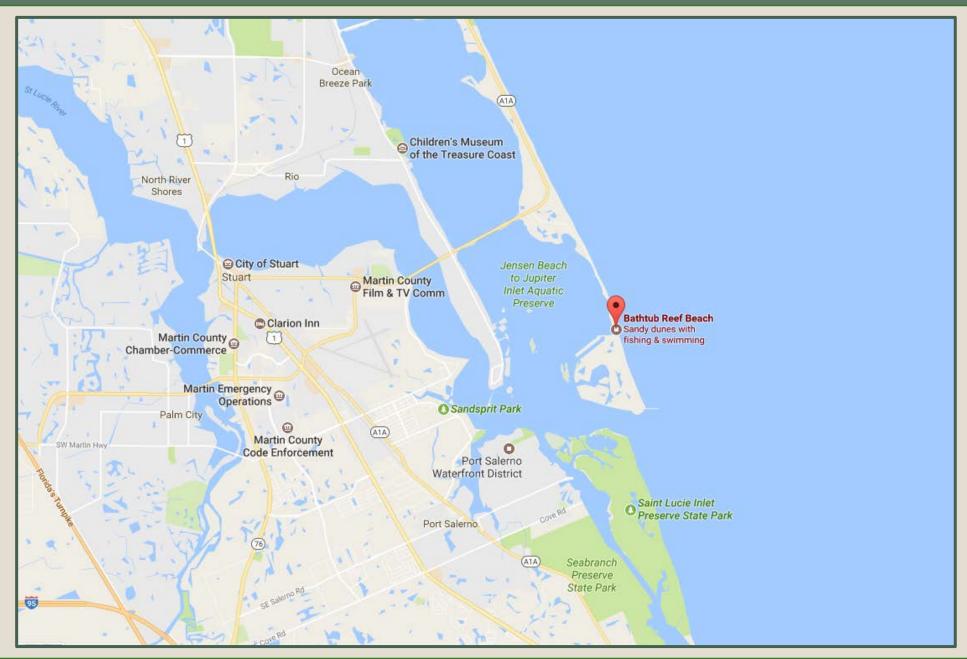
Miami Herald, Where will the green slime go? Florida tracks its spreading algae, 7/7/16



LOOKING OFFSHORE



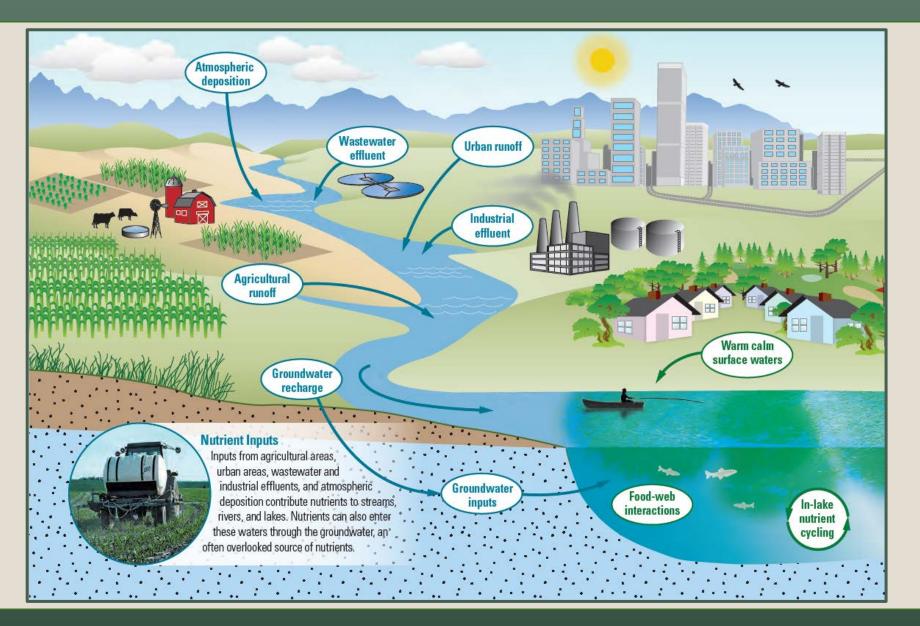
BATHTUB REEF BEACH



BATHTUB REEF BEACH



CAUSES OF ALGAE BLOOMS



USGS, The Science of Harmful Algae Blooms, 10/24/16

EFFECTS OF ALGAE BLOOMS

Public Health

- Exposure to toxins may occur through consumption of tainted water, fish or shellfish; recreational activities; or inhalation of aerosolized toxins.
- Known to cause illness immediately after exposure
 - Headaches, sore throat, vomiting, nausea, stomach pains, blistering, and pneumonia.

Ecologic

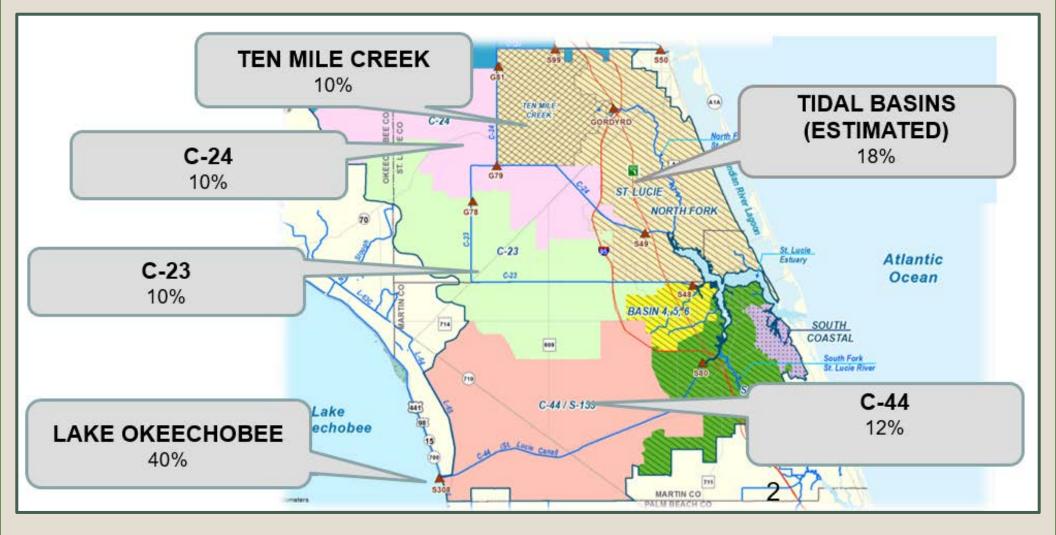
- Cause mortality of aquatic organisms because of low dissolved oxygen or toxins
- Loss of seagrass habitat



<u>Economic</u>

- Loss of recreational revenue
- Loss of aquaculture and fisheries revenue
- Decreased property values
- Loss of business revenue

ST. LUCIE ESTUARY INFLOWS



2016 Calendar Year

Map provided by SFWMD, 1/6/17

CONTACT INFORMATION



Ashley Istler, Attorney Senate Environmental Preservation and Conservation Committee 487-5372 Istler.Ashley@flsenate.gov

Lake Okeechobee & Ecosystem Restoration

Lt. Col. Jennifer Reynolds

Deputy District Commander, South Florida Jacksonville District U.S. Army Corps of Engineers January 11, 2017

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Chronology of water management changes 🔤



Pre-Central & South Florida Projects

- Caloosahatchee/Kissimmee Rivers 1881-93
- East Coast Canals/St. Lucie Canal 1905-24
- Tamiami Trail 1915-28
- Lake Okeechobee HH Dike 1932-38

Central & Southern Florida Project

- Eastern Protective Levee System 1952-54
- Everglades Agricultural Area 1954-59
- Water Conservation Area Levees 1960-63
- Lower East Coast Canals 1954-65
- Lake Okeechobee Levees 1960-64
- Kissimmee River Channelization 1962-71
- South Dade System 1965-83
- Everglades Restoration 1994-current

Everglades Construction Project

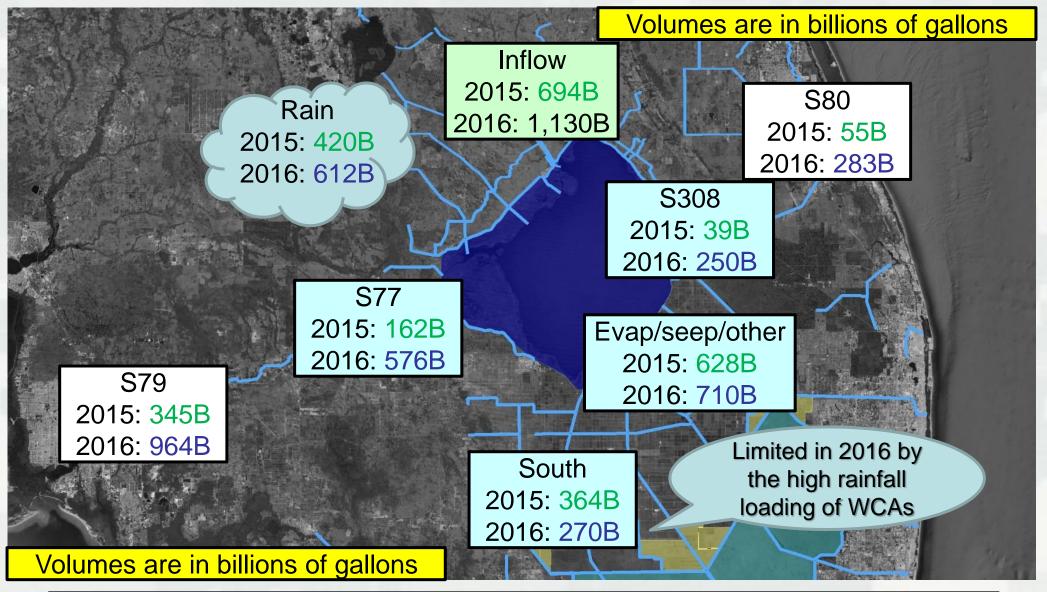
Stormwater Treatment Areas 1994-2003



Lake O Flow Comparisons



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3



Decision-Making



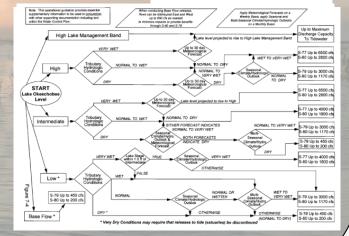
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Decisions on potential releases from Lake Okeechobee include consideration of various information.

CURRENT CONDITIONS

- Central and Southern Florida Project conditions
 - Current climate conditions
 - Water Conservation Area water levels
 - Stormwater Treatment Area available capacity
 - Historical lake levels
 - Estuary conditions/needs
 - Lake ecology conditions/needs
 - Climatic forecasts
 - Hydrologic outlooks
- Projected lake level rise/recession
- Water supply conditions/needs
 ANTICIPATED CONDITIONS/ FORECASTS

2008 Lake Okeechobee Regulation Schedule (LORS)



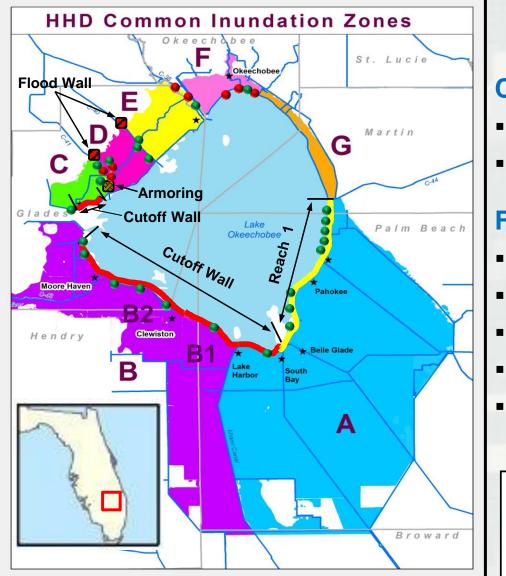
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Herbert Hoover Dike



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Since 2001, USACE has invested over \$870 million in rehabilitation

Completed/Ongoing

- 21.4 miles of cutoff wall in Reach 1
- 23 culvert replacements and 1 removal

Future

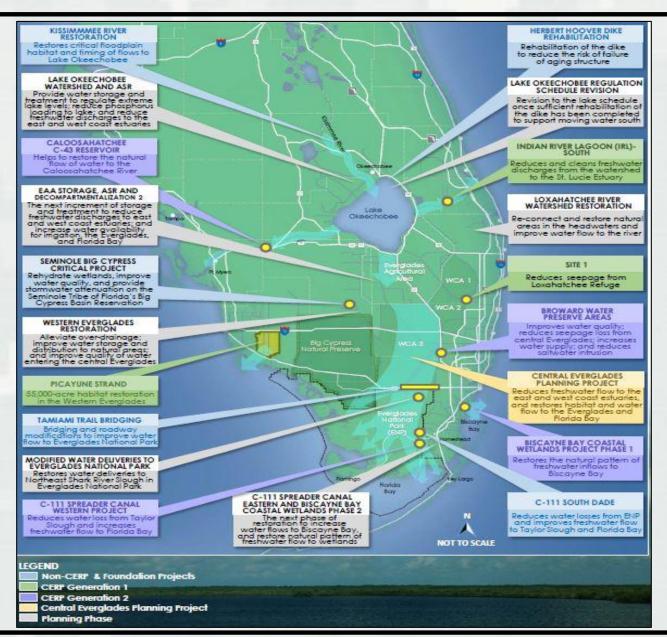
- 35 miles of cutoff wall
- Floodwall at two structures north of lake
- 5 culvert replacements; 3 abandonments
- Embankment armoring at SR 78 bridge
- Recommend for FEMA accreditation
 - Cutoff Wall Completed
 - Future cutoff wall
 - Culvert Replacements Ongoing
 - Culvert Replacements/Abandonments Planned

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S Florida Ecosystem Restoration





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Kissimmee River Restoration



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In-progress construction

Restored portion of river

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Picayune Strand



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In-progress construction

Rehydration of wetlands

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INTEGRATED DELIVERY SCHEDULE (IDS) 2016 UPDATE AS OF DECEMBER 2016

SYNCHRONIZING RESTORATION EFFORTS

- The Integrated Delivery Schedule provides the sequencing strategy for planning, designing and constructing federal projects cost-shared with local sponsors as part of the South Florida Ecosystem Restoration Program, based on ecosystem needs, benefits, costs and available funding.
- The IDS does not require an agency action or a decision document, it is a tool that provides guidance to decision-makers for scheduling, staffing and budgeting.
- It is a living document that is updated as needed to reflect progress and/or program changes.
- The IDS synchronizes program and project priorities with the State of Florida and is needed to request required funding to plan and build South Florida Ecosystem Restoration Program projects.

PROCESS

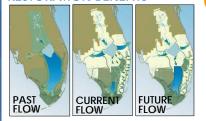
- The IDS is required as part of the Comprehensive Everglades Restoration Plan (CERP) Programmatic Regulations.
- Regular updates to the IDS are required.
- The process is done in consultation with the South Florida Ecosystem Restoration Task Force.
- Public workshops sponsored by South Florida Ecosystem Restoration Task Force Working Group were utilized to engage stakeholders during the development of the IDS in 2015.





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S	KISSIMMMEE RIVER RESTORATION			HERBERT HOOVER DIKE REHABILITATION
	Restores critical floodplain habitat and timing of flows to			Rehabilitation of the dike to reduce the risk of failure
	Lake Okeechobee		7/	of aging structure
	LAKE OKEECHOBEE WATERSHED AND ASR			LAKE OKEECHOBEE REGULATION SCHEDULE REVISION
	Provide water storage and treatment to regulate extreme lake levels: reduce phosphorus loading to lake; and reduce freshwater discharges to the east and west coast estuaries			Revision to the lake schedule once sufficient rehabilitation of
n	loading to lake; and reduce freshwater discharges to the east and west coast estuaries			the dike has been completed to support moving water south
g.	CALOOSAHATCHEE			
	C-43 RESERVOIR Helps to restore the natural			INDIAN RIVER LAGOON (IRL)- SOUTH
ו	flow of water to the Caloosahatchee River	Okee	chobee	Reduces and cleans freshwater discharges from the watershed to the St. Lucie Estuary
	EAA STORAGE, ASR AND			
	DECOMPARIMENTALIZATION 2 The next increment of storage and treatment to reduce		ake	LOXAHATCHEE RIVER WATERSHED RESTORATION
	freshwater discharges to east and west coast estuaries; and increase water availability	Okee	chobee	Re-connect and restore natural areas in the headwaters and
	for irrigation, the Everglades, and Florida Bay			improve water flow to the river
	SEMINOLE BIG CYPRESS CRITICAL PROJECT		Everglades	SITE 1
	Rehydrate wetlands, improve water quality, and provide	Ft. Myels	Agrixultural Ana WCA 1	Reduces seepage from Loxahatchee Refuge
	stormwater attenuation on the Seminole Tribe of Florida's Big Cypress Basin Reservation			
	WESTERN EVERGLADES		WCA 2	BROWARD WATER PRESERVE AREAS
	RESTORATION Alleviate over-drainage;			Improves water quality; reduces seepage loss from central Everglades; increases
	improve water storage and distribution to natural areas:	Big Cypress Natural Preserve	WCA 3	water supply; and reduces saltwater intrusion
	and improve quality of water entering the central Everglades	proved in the second se		CENTRAL EVERGLADES
	PICAYUNE STRAND			PLANNING PROJECT Reduces freshwater flow to the
	55,000-acre habitat restoration in the Western Everglades			east and west coast estuaries, and restores habitat and water
	TAMIAMI TRAIL BRIDGING Bridging and roadway		Everglades National Park Bay	flow to the Everglades and Florida Bay
J.	modifications to improve water flow to Everglades National Park		(ENR) Homestead	BISCAYNE BAY COASTAL
	MODIFIED WATER DELIVERIES TO EVERGLADES NATIONAL PARK		Í	WETLANDS PROJECT PHASE 1 Restores the natural pattern of freshwater inflows to
	Restores water deliveries to Northeast Shark River Slough in	Flamingo	Forida Key Largo	Biscayne Bay
	Everglades National Pařk	C-111 SPREADER CANAL	Bay Bay	C-111 SOUTH DADE
	C-111 SPREADER CANAL WESTERN PROJECT Reduces water loss from Taylor	EASTERN AND BISCAYNE BAY COASTAL WETLANDS PHASE 2 The next phase of	N	Reduces water losses from ENP
	Slough and increases freshwater flow to Florida Bay	The next phase of restoration to increase water flows to Biscayne Bay, and restore natural pattern of freshwater flow to wetlands	\wedge	and improves freshwater flow to Taylor Slough and Florida Bay
		freshwater flow to wetlands	NOT TO SCALE	
	Non-CERP & Foundation Projects			
	CERP Generation 2 Central Everglades Planning Project	t		
N 10 P	Planning Phase			

ACHIEVING **RESTORATION BENEFITS**



Maximizes holistic benefits to regional system as early as possible

- Ensures continued stream of construction. which provides for steady increase in regional ecosystem benefits
- Provides beneficial storage to the Caloosahatchee and St Lucie estuaries while infrastructure that is needed to open up the system for additional flow south is being implemented
- Improves conditions and flow through WCA-3 and provides more water to Everglades National Park and Florida Bay as early as possible
- Advances projects with the greatest potential to avert ongoing degradation and considers implications of climate change and sea-level rise

Ensures additional projects will be ready to continue progress on restoration

- Includes most of the planning efforts for projects identified by stakeholders as priorities
- Prioritizes planning studies for Lake Okeechobee Watershed and the Western Everglades

Consistency with project dependencies and constraints

- Maintains 50/50 cost-share
- Commitment to complete construction on projects where construction has been initiated
- Consistent with project dependencies for moving water south
- Modifications to downstream infrastructure, Restoration Strategies, etc.

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	Yellow		FISCAL YEAR			
Project	Book Code	2016 2017 2018 2019 2020	2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033		INTEGRATED DELIVERY	
Planning Estimates Federal Construction Cost (SFER)++		126 106 190 147 145		0 0	SCHEDULE (IDS)	
Planning Estimates Non-Federal Construction Cost (SFER)++		85 110 102 127 140				
Planning Estimates Total Construction Cost (SFER)++		211 216 292 274 285	5 336 394 348 364 423 406 402 346 284 232 0 0 0	0 0	2016 UPDATE	
Modified Water Deliveries to Everglades National Park*	4					
Herbert Hoover Dike* Seminole Big Cypress*	OPE				AS OF DECEMBER 2016	
Restoration Strategies*						
Tamiami Trail Next Steps Phase 1*		······ ••				
Kissimmee River Restoration					Changes from the November 2015 IDS	
West Palm Beach Canal/STA-1E	4				Changes from the November 2015 IDS	
C-111 South Dade Contract 8 C-111 South Dade Contract 8a	4				 Initiation of both the Lake Okeechobee Watershed 	
C-111 South Dade Contract 8a C-111 South Dade Contract 9	A				and Western Everglades Restoration planning studies	
C-111 South Dade Contract 9		● x0000 x00000 x00000 x000000 000000			one year earlier since funding and approval to initiate	
Picayune Strand Restoration	OPE				planning was obtained in FY16.	
Merritt Pump Station					 Picayune Road removal & Canal plugging 	
Faka Union Pump Station					construction moved to FY19 due to the need to have	
Manatee Mitigation and Flood Protection Features					the Flood Control features completed and	
Miller Pump Station	4				Congressional authorization of the Post Authorization	
Road removal & canal plugging	м				Change Report for the increased total project costs.	
Site 1 Impoundment Phase 1	M					
Indian River Lagoon-South					 Re-occurring Legacy Florida funding will become available in EV17. Construction of the 	
C-44 Intake Canal	В				available in FY17. Construction of the	
C-44 Reservoir	В				Caloosahatchee River C-43 West Basin Storage will	
C-44 STA & Pump Station	В				now be completed in FY22	
C-23/24 Reservoir North	В	••••••			 The Broward County Water Preserve Area project has 	
C-23/24 Reservoir South	В	••••••			been impacted due to no funding included in the	
C-23/24 STA	В				USACE FY17 budget. The C-11 Impoundment now	
C-25 Reservoir	В				reflects design completion in FY18 and construction in	
C-25 STA	B				FY19 through FY23.	
Natural Lands Decomp Physical Model	B Q				 Construction of the Biscayne Bay Coastal Wetlands 	
Decomp Physical Model Caloosahatchee River (C-43) West Basin Storage	4	000000000000000000000000000000000000000			Phase 1 – L-31 East Flow-way was extended out to	
Pump Station and Reservoir	D				complete in FY21 due to limited design and	
Broward County Water Preserve Areas					construction funding in the USACE FY17 budget.	
Northern Mitigation Area	Q	••			5	
C-11 Impoundment	Q	••••••• •••••• •••••			 Planning for CEPP – PPA South: LRR & PPA Execution shifted from EV17 to EV18 due to be funding in the 	
WCA 3A&3B Seepage Management	0	••••••••••••••••••••••••••••••••••••••			shifted from FY17 to FY18 due to no funding in the	
C-9 Impoundment	R				USACE FY17 budget.	
Biscayne Bay Coastal Wetlands Phase 1	FFF, OPE				 Design and construction related to removing the Old 	
L-31 East Flowway Cutler Wetlands	4	••••••••••••••••••••••••••••••••••••••			Tamiami Trail and the L-67A Structure 1 & Gap in L-67C	
Cutier Wetlands C-111 Spreader Canal Western Project (Requires PPA)	ww	• • • • • • • • • • • • • • • • • • •			Levee contracts under CEPP shifted from FY18 to FY19	
Central Everglades Planning Project					due to the requirement to complete an LRR before	
PPA South: LRR & PPA Execution	AA, FF, H, QQ	• • • • • • • • • • • • • • • • • • •			Plans and Specifications can begin. However, the	
Remove Old Tamiami Trail (ENP Preparing NEPA)					USACE and the SFWMD have executed a Pre-	
L-67A Structure 1 & Gap in L-67C Levee		•			Partnership Crediting Agreement to enable crediting	
Increase S-356		•••••	-		to the SFWMD to conduct the work.	
L-29 Gated Spillway					The Hoover Dike Rehabilitation construction	
Increase S-333	4	•••••			completion extended to FY25 to account for work	
L-67A Structures 2 & 3	4				approved in the Dam Safety Modification Report.	
Removal L-67C & L-67 Ext, Constr L-67D Levee	4				apploted	
Removal L-29 Levee & Backfill L-67 Ext PPA North	00. II. G				A REAL PROPERTY AND A REAL	
PPA North PPA New Water	V					
Loxahatchee River Watershed Restoration Project	Х, Ү, К	• xxxx xxxxxx xxxxxx • • • • • • • • •			NOTE: The funding shown for FY17 and	
Lake Okeechobee Watershed Restoration Project	A, GG			. – I – II	beyond is only notional, representing	
Western Everglades Restoration Project	ccc	• xxxxx xxxxxxx • • • • • • • • • • • •				
EAA Storage & ASR/Decomp Ph2	G, GG				approximate funding levels that would be	
C-111 Spreader Canal Eastern & BBCW Ph2	WW,FFF				needed to sustain the work displayed in	
Lake Okeechobee Regulation Schedule Revision*				· · · · · · · · · · · · · · · · · · ·	the IDS for any particular FY. The funding	
++ Does not reflect budgetary development dollars	xxxx• Planning		Non-CERP and Foundation Projects			
or capability Blue = Non-Federal	does not represent a commitment					
Black = Federal					by the Administration to budget the	
* Funded through other program authorities or by other entities					amounts shown.	
Planning Phase - Initiated and Proposed						

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No materials for this item.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

CERP

68 projects

sfwmd.gov

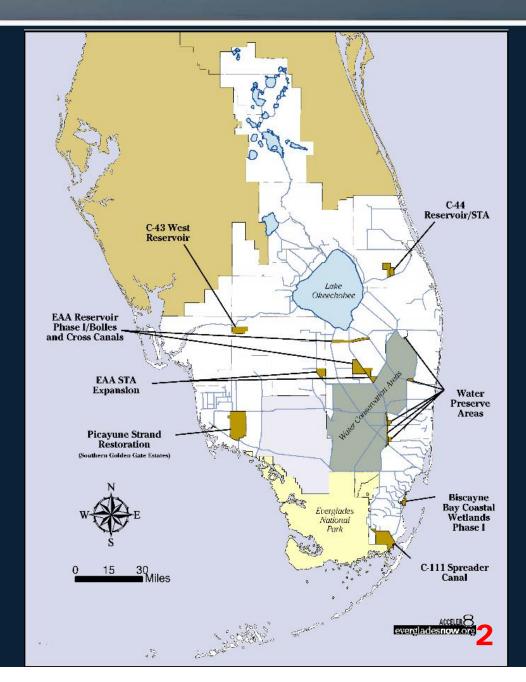
- Authorized in Water Resources Development Acts (WRDA) of 1992 and 1996
- Plan approved as a framework for restoration in WRDA 2000

Comprehensive Everglades **Restoration Plan** Components Taylor Creek/ Nubbin Slough Storage and Treatment Area North of Lake Indian River Lagoon Okeechobee Storage Water Preserve Åreas: Storage in C-23, 24,25,44 orth and South Fork Basins P **Revised Lake** St. Lucie Estuary keechobee Regulation Water Supply Caloosahatchee Reservoir Schedule with ASR and Caloosahatchee Lake Okeechobee ASR Backpumping with STA L-8 Modifications and Storage Caloosahatchee Estuary Water Supply WCA-1 Internal **Everglades Agricultural** Canal Structures Area (EAA) Storage Modify G-404 Water Preserve Areas: and S-140 Pumps Above Ground Storage. ASR and Seepage Management Big Cypress / L-28 Modifications Lower East Coast Water Conservation Partial Decompartmentalization and Broward County of Water Conservation Area 3 Secondary Canals and Everglades National Park Water Preserve Areas North and Central Lake Belt Storage **Everglades Rain Driven Operations** West and South Miami-Dade Reuse L-31 N Levee Seepage Management **Biscayne Bay** Coastal Wetlands C-111N Spreader Canal

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

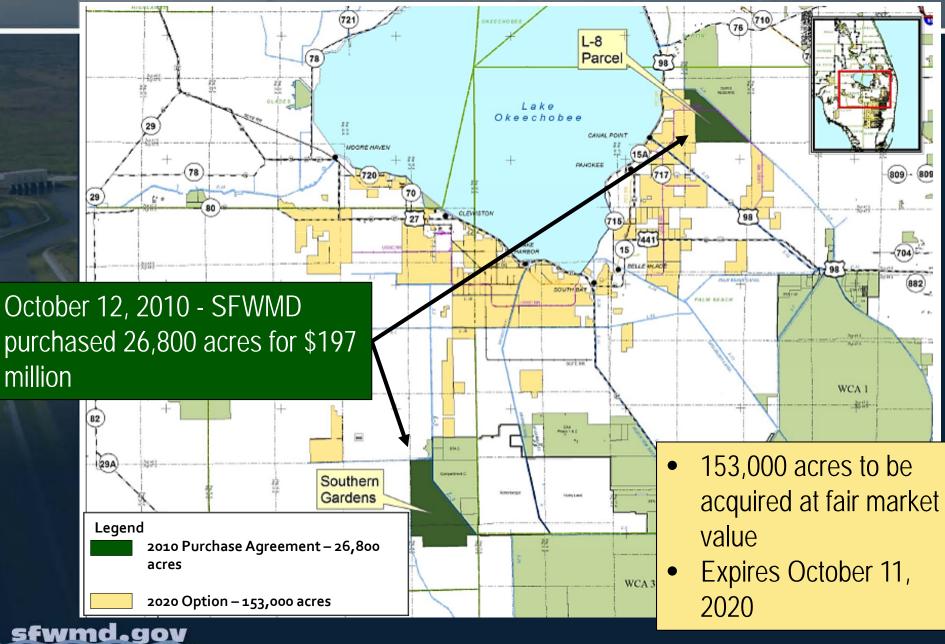
Acceler8

- Announced by Governor Bush in October 2004
- Accelerated State funding, design and construction of several CERP projects









Restoration Strategies



\$880 Million Program

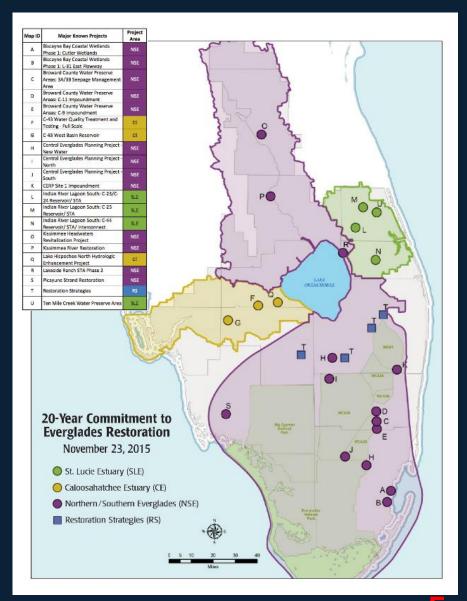
- Provide Water Quality Treatment and Storage through Flow Equalization Basins (FEB)
- A-1 FEB is in operational testing
- L-8 FEB is near Substantial Completion



Legacy Florida

- Signed by Governor Rick Scott in April 2016
- Includes dedicated, ongoing funding source for Everglades restoration projects
- Eliminates "stops and starts" that have impeded progress in the past
- When complete, projects will deliver critical benefits across entire South Florida ecosystem

sfwmd.gov



Central Everglades Planning Project (CEPP)



- Increases storage, treatment and conveyance of water south of Lake Okeechobee
- Sends ~210,000 ac-ft of water south from the Lake
- Removes and/or plugs canals and levees within the central Everglades
- Improves hydroperiod and flow through Everglades National Park while protecting urban and agricultural areas to the east from flooding

Everglades Restoration: A Project Chronology

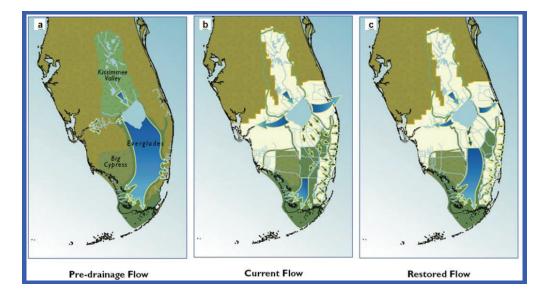
Since the 1992 settlement of the USA vs. Florida water quality litigation and the ensuing Everglades Forever Act, the State and Federal governments have embarked upon several huge capital efforts designed to improve water quality and continue to offer flood protection and restore the Everglades ecosystem. These efforts have included the purchase of over 100,000 acres south of Lake Okeechobee and construction of storage and stormwater treatment areas at a cost of over \$2.5 billion by the State.

In 2015, Governor Rick Scott proposed a plan to fund the restoration of Florida's Everglades over the next 20 years. An ongoing source of revenue for Everglades restoration will eliminate the "stops and starts" that have repeatedly impeded Everglades restoration progress in the past. A dedicated funding plan, known as Legacy Florida, recognizes the international significance of Everglades restoration and its importance to Florida's economy and the quality of life for millions of Florida residents.

A synopsis of large, capital project initiatives over the last two decades follows.

Comprehensive Everglades Restoration Plan (CERP)

The Comprehensive Everglades Restoration Plan is a framework for restoring, protecting and preserving the greater Everglades ecosystem. The plan is a 50-50 cost partnership between the State and Federal governments. The Florida Legislature and the South Florida Water Management District have to date invested approximately \$2 billion in CERP-related land acquisition, project design and construction. The implementation of the CERP Plan is guided by the Integrated Delivery Schedule, a sequencing timeline for project completion.



Authorized in the Water Resources Development Act of 2000, CERP consists of 68 components as a plan to "restore, preserve, and protect the south Florida ecosystem while providing for other water-related needs of the region, including water supply and flood protection."

CERP Included 10 Initially Authorized Projects:

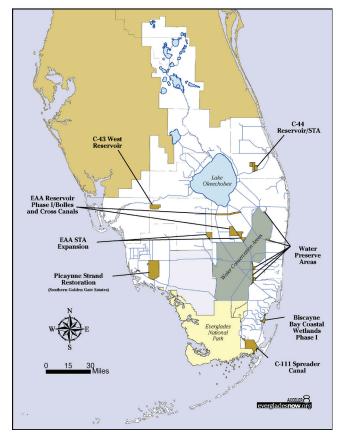
- C-44 Basin Storage Reservoir
- Everglades Agricultural Area Storage Reservoirs, Phase 1
- Site 1 Impoundment
- Water Conservation Areas 3A/3B Levee Seepage Management
- C-11 Impoundment and Stormwater Treatment Area
- C-9 Impoundment and Stormwater Treatment Area
- Taylor Creek/Nubbin Slough Storage and Treatment Area
- Raise and Bridge East Portion of Tamiami Trail and Fill Miami Canal within Water Conservation Area 3
- North New River Improvements
- C-111 Spreader Canal

Acceler8

Announced by Governor Jeb Bush in October 2004, the program, utilizing all State funds to expedite or advance projects, accelerated the funding, design and construction of a number of CERP projects. This was done through the use of bonds that were issued by the District (over \$380 million of that debt is still outstanding).

Implementation of the Acceler8 Projects would have provided approximately 50% of the CERP Plan Surface Water Storage. The funds were used to implement the following:

- Construct test cells for the C-43, C-44 and EAA reservoirs
- Complete detailed project designs for the reservoirs
- Complete more than 17,300 acres of expansion for STA-2 and STA-5/6
- Initiate construction of the EAA Reservoir, which was later used for storage under Restoration Strategies (A-1 FEB)



Accelerated CERP projects

EAA Reservoir Phase A1 as Part of Acceler8

The project consisted of the construction and operation of a 12-foot deep, above ground reservoir with a storage capacity of 190,000 acre-feet located on 16,000 acres in the Everglades Agricultural Area. Project design was completed in 2006; construction began soon after and was suspended in 2008.

The Acceler8 Program was terminated after environmental organizations filed lawsuits in federal court to stop construction of the EAA Reservoir Phase I.

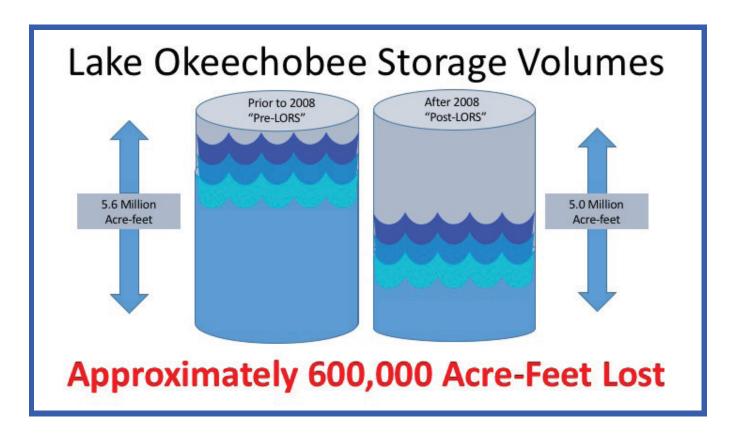
Everglades Restoration: A Project Chronology



Lake Okeechobee Regulation Schedule (LORS2008)

From 2004 through 2006, Lake Okeechobee inspections revealed severe deterioration of the Herbert Hoover Dike (HHD). As a result, the HHD was listed as a high hazard dam in the U.S. Army Corps of Engineers Dam Safety program as it posed a severe risk on life and property. Since then, the U.S. Congress has authorized comprehensive dike repair committing over \$1 billion to secure the dike. This project should be complete in 2022. Until then, prudent management requires lowering lake levels to minimize risks to communities surrounding the Lake.

A new, interim regulation schedule for the management of Lake Okeechobee water levels was approved by the U.S. Army Corps of Engineers in 2008. The new Lake Okeechobee Regulation Schedule, named LORS2008, replaces the prior regulation schedule known as WSE (Water Supply/Environmental) and lowers the Lake level by over 1 foot. The Lake schedule is planned for revision between 2022 and 2025.



Contractual Options for Purchase of Lands South of Lake Okeechobee

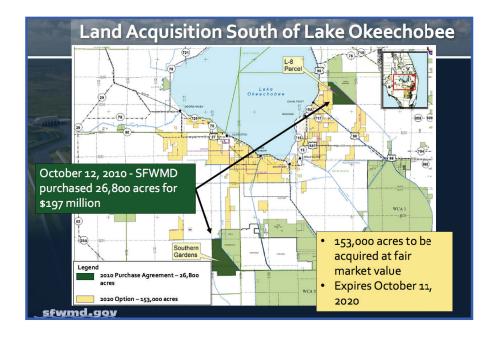
Negotiations with U.S. Sugar began in 2008 under Governor Charlie Crist. Initially, the South Florida Water Management District (SFWMD) was to acquire all land and company assets, including 187,000 acres of land in the EAA, for an estimated \$1.75 billion. In October 2010, after several unsuccessful attempts to close deals for portions of U.S. Sugar land, SFWMD closed on the purchase of 26,000 acres for \$197 million.

The 2010 purchase agreement included an option to acquire an additional 153,209 acres at fair market value. SFWMD may execute this option before October 11, 2020, or may assign it to the Trustees of the Internal Improvement Trust Fund. The 2010 purchase agreement and option contract is complex and not favorable to the State. Notable provisions include:

SFWMD may not exercise its right of eminent domain to acquire acreage less than 153,209 acres, and if such eminent domain proceeding ensues, the purchase and contract prevails over eminent domain.

■ If lands are purchased, they must be leased back to U.S. Sugar for a 20-year term.

To construct a project, additional land, not owned by U.S. Sugar, may be needed.



Restoration Strategies for Clean Water for the Everglades

In June 2012, the State of Florida and the U.S. Environmental Protection Agency (EPA) reached consensus on new Restoration Strategies for further improving water quality in the Everglades, building on the success of the existing 57,000 acres of stormwater treatment areas. Based on months of scientific and technical discussions, Restoration Strategies expands water quality improvement projects to help achieve phosphorus water quality standards established for the Everglades.



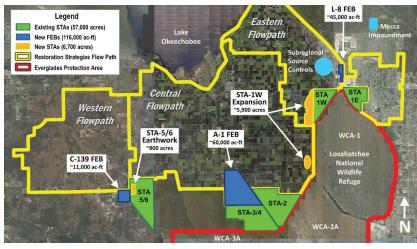
\$880 Million Restoration Strategies (\$225 Million expended):

142,000 acre-feet of storage and 6,500 additional acres of treatment

Construction Highlights:

- A-1 Flow Equalization Basin (60,000 acre-feet of storage) – complete and operational
- L-8 Flow Equalization Basin (45,000 acre-feet of storage) – partial completion and operation
- STA-1 West (4,700 acres of expanded treatment capacity) – under construction
- Construction of all components to be completed by 2025

As a result of the State's investment in water quality projects, over 90% of the Everglades Protection Area now meets water quality standards.



Restoration Strategies: Stormwater Treatment Areas and Flow Equalization Basins

Central Everglades Planning Project (CEPP)

The Central Everglades Planning Project identifies and plans for projects on lands already in public ownership to allow more water to be directed south of Lake Okeechobee in the central Everglades, Everglades National Park and Florida Bay while protecting the Caloosahatchee and St. Lucie estuaries. Authorized by the U.S. Congress in 2016, the focus is additional storage and distribution of water south.

Of the 68 projects included in the Comprehensive Everglades Restoration Plan (CERP), the Central Everglades Planning Project (CEPP) includes six of the projects in one plan.

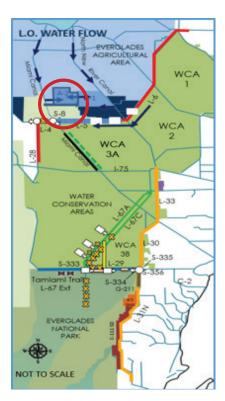
Components include:

- Everglades Agricultural Area Storage Reservoirs (circled in red on map)
- WCA 3 Decompartmentalization and Sheetflow Enhancement
- S-356 Pump Station Modifications
- L-31 N Improvements for Seepage Management
- System-wide Operational Changes Everglades Rain-Driven Operations
- Flow to Northwest and Central WCA 3A

Benefits of CEPP:

Environmental improvements to approximately 1.5 million acres in the Northern Estuaries, Water Conservation Area 3, Everglades National Park and Florida Bay include:

- Increasing storage, treatment and conveyance of water south of Lake Okeechobee
- Removing canals and levees to enhance sheetflow, restoring Everglades' wetlands, hydrology and connectivity
- Delivering more fresh water to Everglades National Park and Florida Bay
- Protecting urban and agricultural interests to the east from flooding



Options to Reduce High Volume Freshwater Flows to the St. Lucie and Caloosahatchee Estuaries and Move More Water from Lake Okeechobee to the Southern Everglades

An Independent Technical Review by the University of Florida Water Institute

Wendy Graham, Ph. D. Water Institute Director Swisher Eminent Scholar in Water Resources





- The 2014 Florida Senate requested the UF Water Institute to conduct an independent technical assessment to
 - Review existing documents, plans, projects
 - Identify constraints to implementing plans and projects
 - Identify options for accelerated protection of the estuaries and protection of the Everglades

Review Team Findings

- Relief to the estuaries and the ability to move more water south of Lake Okeechobee can be accomplished using existing technology
- The solution is enormous increases in storage and treatment of water north, south, east and west of the lake
- Currently authorized storage and treatment projects are insufficient to achieve these goals
- The path forward requires significant, consistent longterm investment in the infrastructure of the South Florida hydrologic system

Estimates of Needed Storage

400,000 acre-feet within the Caloosahatchee River watershed.

170,000 acre-ft C-43 reservoir under construction

Note: Increasing height of water in Lake Okeechobee by 1 ft provides ~450,000 acre-ft of storage



200,000 acre-feet within the St. Lucie River watershed.

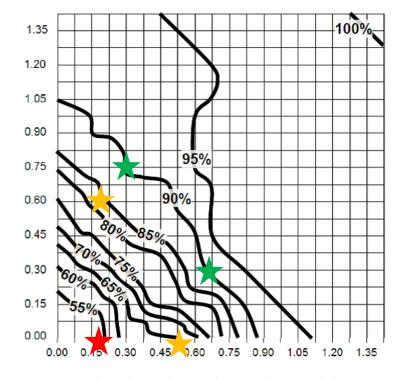
50,600 acre-ft C-44 reservoir under construction

1,000,000 acrefeet distributed N and S of Lake Okeechobee.

172,000 acre-ft FEBs under construction/ planned S of Lake

What combinations of northsouth storage achieve goals?

Reducing Estuary Discharge

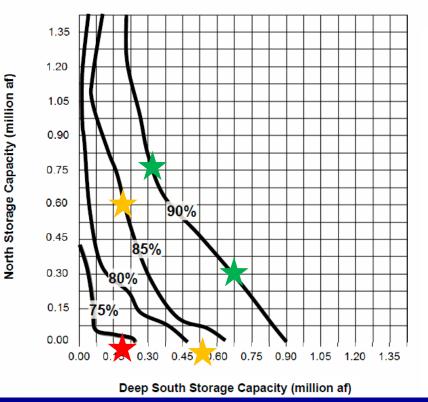


North Storage Capacity (million af)

% Reduction in Lake-Triggered High Discharges to the Northern Estuaries

Deep South Storage Capacity (million af)

Rehydrating Everglades



Dry Season Everglades Demand Target Delivered – Standard Score

Results based on SFWMD RESOPS Screening Model (SFWMD, 2009)

What Path Forward?

- Accelerate existing projects
- Revise LO regulation schedule as warranted by Herbert Hoover Dike rehabilitation
- Provide storage and treatment north of lake
- Provide additional storage, treatment and conveyance south of lake
- Consider deep well disposal as emergency measure

Technical Review Team Members

Wendy D. Graham

Director, Water Institute, Professor and Carl S. Swisher Eminent Scholar Chair in Water Resources University of Florida

Mary Jane Angelo

Director, Environmental and Land Use Law Program, Professor, Levin College of Law, University of Florida

Thomas K. Frazer

Director, School of Natural Resources and Environment, Professor, School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences, University of Florida

Peter C. Frederick

Research Professor, Wildlife Ecology and Conservation, Institute of Food and Agricultural Sciences, University of Florida

Karl E. Havens

Director, Florida Sea Grant, Professor, School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences, University of Florida

K. Ramesh Reddy

Graduate Research Professor and Chair, Soil and Water Science, Institute of Food and Agricultural Sciences, University of Florida

QuestionsComments?

No materials for this item.

No materials for this item.

Options for Reducing Harmful Lake Okeechobee Discharges and Everglades Restoration

The Florida Senate Appropriations Subcommittee on the Environment and Natural Resources

January 11, 2017 – Gary Goforth, Ph.D., P.E., Gary Goforth, LLC



Discussion Points

- 1. The State of Florida suffers significant economic, public health and environmental damages resulting from harmful Lake Okeechobee discharges to the estuaries.
- 2. The single most important project that can be implemented to reduce damaging discharges to the estuaries and restore flow to the Everglades is completion of the EAA Storage Reservoir, which has been an integral component of Everglades restoration for more than 20 years.
- 3. Multiple combinations of location, configuration, land area and water depth can achieve the storage and flow objectives of the EAA Storage Reservoir.

Economic and Ecologic Impacts

Economic impacts

- 27,000 jobs and \$840 million per year in water-related businesses around the St. Lucie Estuary
- 50,000 jobs and \$3 billion per year in Lee County; \$40 million lost revenues in 2005 high flows
- Florida Realtors 2015 report: loss of property values associated with large Lake discharge events
 - \$428 million around St. Lucie Estuary
 - \$541 million around Caloosahatchee Estuary; 2016 real estate sales down 22% from 2015

Ecologic impacts

- Estuaries:
 - loss of oysters, seagrass, habitat and associated impacts in food chain (fish, turtles, etc.)
 - deposition of muck, high nutrients and toxic algae
- Everglades, Gulf of Mexico and Florida Bay: loss of flow and associated impacts

1980-2016 average annual discharges to Caloosahatchee and St. Lucie

- 242 billion gallons of harmful Lake discharges
 - could satisfy water supply demand for 4.4 million people
 - about \$850 million/yr to replace this wasted water
- 3.3 million pounds nitrogen
- 222,000 pounds phosphorus
- 31 million pounds suspended sediment

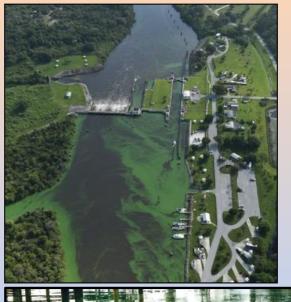
2016 – about 3 times average annual flows and pollution

Martin/St. Lucie septic tanks estimated to contribute <2% of nutrient loading

2016 – Toxic Algae Blooms in St. Lucie and Caloosahatchee Estuaries from Lake Okeechobee









Toxic Algae Blooms - Only occur during years with high Lake discharges to St. Lucie Estuary

- Causes acute human health problems respiratory and skin – over 100 cases documented in Martin County in 2016
- Linked to chronic public health problems Alzheimer's, Parkinson's and ALS
- Cattle and pet deaths

Unprecedented public and media response "Store it - Clean it - Move it south!"



Additional storage is needed in all regions

The science is clear, consistent and unambiguous – additional storage is needed south of the Lake

- **Eastern storage** of Lake being accomplished through authorized and on-going CERP Project; C-44 Reservoir designed to capture basin runoff not Lake discharges
- Western storage C-43 Reservoir and other basin projects
- Northern storage benefits dry season water supply north of lake; limited ability to reduce harmful discharges to estuaries: after filling, majority of discharges flow to Lake

Southern storage

Discharge is to the south; can operate 12 months of the year and significantly reduce harmful discharge to estuaries

- Water Year 2015: 191 billion gallons sent south to Everglades; more than 10 fill/drain cycles
 - 184 billion gallons still went to estuaries
 - Proved that southern storage is effective even though Lake is high and that STA performance doesn't suffer
- 2016: 80 billion gallons sent south to Everglades; 740 billion gallons to estuaries

2009 SFWMD identified a goal of 228 to 358 billion gallons of storage south of Lake (River of Grass)

2014 Central Everglades Planning Project (CEPP) – storage greater than 120 billion gallons is likely needed

2015 Univ. of Florida Water Institute Study

- Achieving substantial reduction in lake-triggered discharges to the estuaries and substantial improvement toward the dry season Everglades demand target will require additional land between the lake and the Everglades
- Recommended between 43-165 billion gallons , on between 11,000 129,000 acres

2016 National Academies of Science, Engineering and Medicine - more storage needed

- Historical rainfall greater than assumed in CERP -> more storage would likely be needed to accommodate future changes in the quantity and intensity of runoff.
- At the same time, over 325 billion gallons of the originally envisioned storage has been lost due to design changes, new understanding of project feasibility (e.g., ASR wells) and changes to Lake Okeechobee's operating schedule.

EAA Storage Reservoir – The Unfinished 60-yr Old Project

Combined shortfall for EAA Storage Reservoir = 100 billion gallons

1923 – first reported discharges from Lake Okeechobee to the St. Lucie Estuary

1930 – Martin County Commission sends first of many requests to State requesting a stop to the discharges

1955 – US Army Corps evaluates new outlet and flow-way south of Lake

- 1980s The concept of Regional EAA Reservoir Storage was formalized through the late 1980s and early 1990s
- 1996 Governor's Commission for a Sustainable South Florida: A Conceptual Plan for the C&SF Project Restudy
 - Stakeholders unanimously agreed to storage reservoirs in the EAA

1999 - C&SF Restudy - identified EAA Storage Reservoirs as Component G – 120 billion gallons on 60,000 acres

Land acquired from willing sellers prior to planning and design completion

2000 - The EAA Storage Reservoir was authorized by Congress as part of initial set of CERP projects

- A-1 Reservoir 62 billion gallons, 12 feet deep on 17,000 acres
- A-2 Reservoir 55 billion gallons, 12 feet deep on 16,000 acres
- 2006 cost estimate: \$913 million delay has cost the taxpayers hundreds of millions of dollars

2006 - Construction of A-1 Reservoir began; anticipated construction completion 2009-2011

2008 – Construction of A-1 Reservoir stopped after expenditure of more than \$500 million

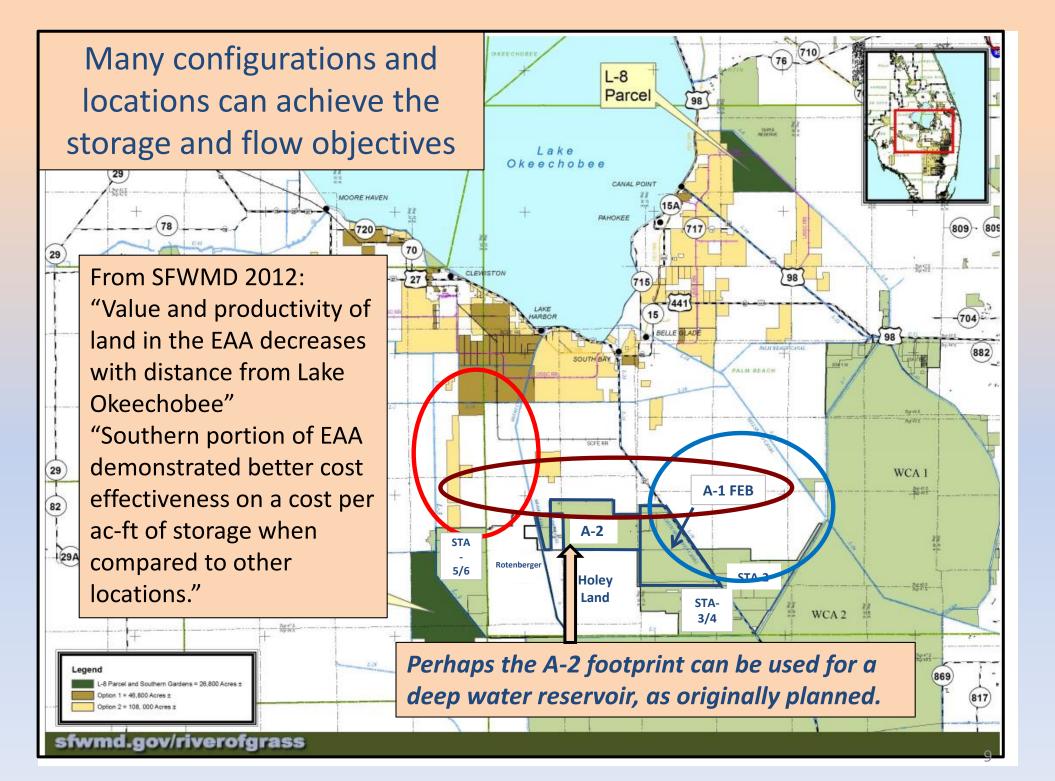
2012 – A-1 footprint converted to a shallow water surge basin to provide additional water quality treatment for predominantly EAA runoff, and secondarily, for Lake releases (Restoration Strategies)

2013 – Central Everglades Project (CEP) –

- A-1 reservoir was removed from CERP loss of 62 billion gallons of storage
- A-2 reservoir was reduced from 55 billion gallons to 18 billion gallons, a loss of 37 billion gallons
- 2016 Sen. Negron proposes acquisition of up to 60,000 acres and construction of EAA Storage Reservoir
 - 60,000 acres is less than 15% of the EAA

Benefits of EAA Storage Reservoir

- Create construction jobs and long-term jobs and inject money into the local economy
- Reduce the damaging discharges to coastal estuaries and reduce risk of health problems
- Provide additional water to meet Everglades and agricultural water demands, improving the timing of environmental deliveries of clean water to the WCAs, Florida Bay and the Gulf of Mexico
- Provide additional water to the Florida east coast well fields and combat sea level rise
- Reduce extreme high and low levels in Lake Okeechobee
- Reduce the potential for flooding in the EAA, and reduces the need for emergency flood control back-pumping into Lake Okeechobee
- Improve operational flexibility to move water within the EAA, including flow equalization and optimization of STA performance to further reduce phosphorus inflows to the Everglades
- Provide public access and recreation opportunities

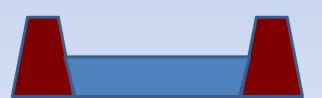


Many combinations of area and depth can achieve the storage and flow objectives

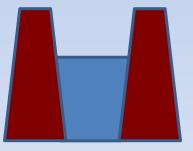
Alternative	Storage Depth (feet)	Land Area (acres)	Storage Volume (billion gallons)
1	6	60,000	120
2	10	36,000	120
3	12	30,000	120
4	14	25,715	120

Note: alternatives evalated during planning process

for initial EAA Storage Reservoir (2006)



Alt. 1. 6-ft deep, 60,000 acres



Alt. 3. 12-ft deep, 30,000 acres

Potential Socioeconomic Benefits of EAA Storage Reservoir Project

Jobs and training for local residents:

- Over \$1 billion construction program
 - \$500,000 expenditures in Tri-cities area
- Estimated over 650 direct jobs:
 - Construction craft workers
 - Heavy equipment operators
- Long-term employment opportunities

SFWMD briefing, April 20, 2007

Potential Next Steps

- 1. Land acquisition
- 2. Accelerate planning and design (coordination with Corps)
 - evaluate alternatives, incl. use of A-2 footprint as deep water reservoir
- 3. Continue stakeholder meetings, including identifying socioeconomic opportunities
- 4. Construction
- 5. Revise Lake Okeechobee regulation schedule
- 6. Celebrate completion of CERP EAA Storage Reservoir!
- On a parallel path
 - Improve Lake Okeechobee water quality
 - Begin health sampling of Glades communities and estuary regions affected by potentially toxic algal blooms

Take Home Messages

- The State of Florida suffers significant economic, public health and environmental damages resulting from harmful Lake Okeechobee discharges to the estuaries.
- 2. The single most important project that can be implemented to reduce damaging discharges to the estuaries and restore flow to the Everglades is completion of the EAA Storage Reservoir, which has been an integral component of Everglades restoration plans for more than 20 years.
- Several combinations of location, configuration, land area and water depth can achieve the storage and flow objectives of the EAA Storage Reservoir.

	RIDA SENATE
	ICE RECORD
(Deliver BOTH copies of this form to the Senator	or Senate Professional Staff conducting the meeting)
Meeting Date	Bill Number (if applicable)
Topic Lake O- EVERGLOOS	Amendment Barcode (if applicable)
Name Michael TOSRI	
Job Title Concilman Village of	ISAMOGER
Address ISO Seminal BIVO	Phone 3052405989
Street TAVESNIET City State	3070 Email margnite belook.net
Speaking: For Against Information	Waive Speaking: 🔄 In Support 📃 Against
Representing ISAMOLAda	(The Chair will read this information into the record.)
Appearing at request of Chair: Yes No	Lobbyist registered with Legislature: Yes No

This form is part of the public record for this meeting.

\land	E FLORIDA SENATE RANCE RECO Senator or Senate Professional S	
Meeting Date		Bill Number (if applicable)
Topic Lake D		Amendment Barcode (if applicable)
Name Melissa McKinlay		
Job Title Commissioner, Palme	Seach (Durity	
Address 301 N DIVE AVE		Phone 561 355 2204
$\frac{WPB}{City} \qquad FL$	<u>33401</u> Zip	Email mmckinlay@pbcgov.org
Speaking: For Against M Information	Waive S	peaking: In Support Against ir will read this information into the record.)
Representing Palm Beach Count	e/	
Appearing at request of Chair: Yes No	Lobbyist regist	ered with Legislature: Yes No
While it is a Senate tradition to encourage public testimon	y time may not nermit all	persons wishing to speak to be heard at this

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THE FLO	RIDA SENATE
APPEARAN	ICE RECORD
	or Senate Professional Staff conducting the meeting)
Meeting Date	Bill Number (if applicable)
Topic Lake Okeechobee	Amendment Barcode (if applicable)
Name Tammy Jackson-MC	ore
Job Title Deputy City Mar. (City of Pahokee)
Address 307207 Begonia	Dr. Phone 561-914-0311 (cel)
Lahokee FL	33476 Email tockson-moore@city
City State	zip ofpahokee.com
Speaking: For Against Information	Waive Speaking: In Support Against (The Chair will read this information into the record.)
Representing City Tri-Cities (Belle	: Glade, Pahokee)
Appearing at request of Chair: Yes No	Lobbyist registered with Legislature: 🗌 Yes 📈 No

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THE FLORIDA SE	NATE
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Meeting Date	Bill Number (if applicable)
Topic Clean Walten Projects For Lobe (2 & Acchampes Amendment Barcode (if applicable)
Name Juger & Schellenter	
Job Title Rention & Octation Partok	
Address 12331 Sermon De Ph	Phone <u>239</u> 472 5/87
Street <u>FI MENS FI 23908</u> City State	Zip Email Carols Behalder HEI. Caro
Speaking: K For Against Information	Waive Speaking: In Support Against (The Chair will read this information into the record.)
Representing Servibilo Captron Respectation	or Renttoes
Appearing at request of Chair: Yes No Lobb	yist registered with Legislature: Yes No

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APPEARA	NCE RECORD
Janth, 2317 (Deliver BOTH copies of this form to the Senato	r or Senate Professional Staff conducting the meeting)
Meeting Date	Bill Number (if applicable)
Topic In Support of Negron	Amendment Barcode (if applicable)
Name Megga Michols	
Job Title FSU Student	
Address 1667 Sharkey St	Phone 321-266-5081
Street Tallahassee FZ City State	32304 Email MANIOROMY. Suredu
Speaking: For Against Information	Waive Speaking: In Support Against (The Chair will read this information into the record.)
Representing	
Appearing at request of Chair: Yes No	Lobbyist registered with Legislature: Yes No

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THE FLORIDA SENATE	
APPEARANCE RECO (Deliver BOTH copies of this form to the Senator or Senate Professional S	
	Bill Number (if applicable)
Topic Lake O Discharge	Amendment Barcode (if applicable)
Name Nula Pipes	
Job Title Divector	
Address 332 NW Aurara St. Street	Phone 772-233-6182
port St. Lucie FL 34983 State Zip	Email <u>Ayla Cone foridation</u>
	peaking: In Support Against <i>ir will read this information into the record.)</i>
Representing One FLorda Foundat	ion
Appearing at request of Chair: Yes No Lobbyist regist	ered with Legislature: Yes No
While it is a Senate tradition to encourage public testimony, time may not permit all meeting. Those who do speak may be asked to limit their remarks so that as many	persons wishing to speak to be heard at this persons as possible can be heard.

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Topic	Everstade	~ KESYOWTI	02		Amendment Barcode (if applica	ible)
Name	Sophia 3	Frequest				
Job Title		1				
Address	3015 SE.	St. Write	Bud	Phone_		
_	Street	PC	34991	Email	······	
C	Xity	State	Zip			
Speaking:	For Against	Information			In Support Against information into the record.)	
Repre	senting					
Appearing	g at request of Chair:	Yes No	Lobbyist registe	ered with I	Legislature: 🗌 Yes 🕅 I	10

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Submitted @ 0935

APPEARANCE RECORD

THE FLORIDA SENATE

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Meeting Date	Bill Number (if applicable)
Topic WATER PROJECTS-REDUCING Name JAMES EVANS	LAKE ODISH Honges Amendment Barcode (if applicable)
Job Title DIRECTOR OF NATURAL RESO	urces
Address 800 DUNLOP RD	Phone 237-472-37-00
SANIBEL FL City State	33957 Email DAMES. ElAn Sway Sand Com
Speaking: For Against Information	Waive Speaking: In Support Against (The Chair will read this information into the record.)
Representing CITY of SANIBOL	
Appearing at request of Chair: Yes YNO	Lobbyist registered with Legislature: Yes Yo

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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/ Meeting Date				Bill Number	(if applicable)
Topic Reducing harmful	Lake Okeechobe	ee Discharg	res A	mendment Barcod	e (if applicable)
Name Daniel Andrews					
Job Title Fishing Guide			`		
Address 12360 Flinflock	Ln	<u></u>	Phone <u>739</u>	-989-9352	
FF. Myers City	FL	<u>33912</u> Zip	Email danid	andrews@captri	Mstardeunwater
Speaking: 📈 For 🗌 Against		-	eaking: II will read this in	n Support	Against e record.)
Representing Captains	For Clean Wate	? <u>r</u>			
Appearing at request of Chair:	Yes No	_obbyist registe	red with Leg	islature: 🛄 Y	es No

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Subnitled at 9:42

APPEARANCE RECORD

THE FLORIDA SENATE

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Meeting Date	Bill Number (if applicable)
Topic _	Amendment Barcode (if applicable)
Name TACQUI THURLOW - LIPPISCI	
Job Title <u>Citizen/former mayor</u> , Townof Seure	11's Point
Address 18 Riverview Dr.	Phone 772-486-3818
Street Sea 21/5 Print, A 34994 City State 2	Email, thur toware con
Speaking: For Against Information	Waive Speaking: X In Support Against (The Chair will read this information into the record.)
Representing muself	In support of reducing harmful lake Okeecho Jeer Dischauger
Appearing at request of Chair: Yes No Lobby	ist registered with Legislature: Yes X No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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THE FLORIDA SENATE APPEARANCE RECORD

9/11/17 (Deliver E	(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)		
Meeting Date			Bill Number (if applicable)
Торіс			Amendment Barcode (if applicable)
Name Lydia Eldredge	<u>.</u>		
Job Title Graduate TA			
Address 2006 Woodstock	In		Phone
Tallahassee City	FL State	32303 Zip	Email <u>eldredge. Lydia Egmailica</u> n
Speaking: For Again	nst Information	Waive Spe (The Chair	aking: In Support Against will read this information into the record.)
Representing <u>mysed</u>	<i>F</i>		·
Appearing at request of Chai	r: 🔄 Yes 🔛 No	Lobbyist register	ed with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

THE FLORIDA SENATE APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting) 1-11-17 Meeting Date Bill Number (if applicable) Topic Amendment Barcode (if applicable) Name Adam Morkey Job Title ___ _____ Phone <u>904 540 7344</u> ______ 32086 Email <u>Capt-Mortey</u> SR ZOB Address 1205 Street Fl -State Against Speaking: For Information Waive Speaking: | In Support Against (The Chair will read this information into the record.) Representing Sel# Appearing at request of Chair: Yes 🕅 No Lobbyist registered with Legislature: Yes KNo

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THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Meeting Date	Bill Number (if applicable)
10	
Topic JAKE O	Amendment Barcode (if applicable)
Name TRISCILLA TayLon	
Job Title FORMER STATE REP	Former County Bunn
Address 1448 39th DV	Phone <u>561</u> 3462814
Street WEN Shu Beau City State	F1 33407 Email
Speaking: For Against Information	Waive Speaking: In Support Against (The Chair will read this information into the record.)
Representing Myself	
Appearing at request of Chair: Yes No	Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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THE FLORIDA SENATE APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Meeting Date	Bill Number (if applicable)
Topic <u>Chanwater/cleawaar</u> Name <u>Roug Schmidt</u> River	Amendment Barcode (if applicable)
Name_ Roug Schmidt River M	CO Ulimenter
lab Titla	
Address 2505 Muls. Tordian River Don Ph	hone <u>777-349-6115-</u>
Address <u>2505 M.B. Endia Rink Da Lot</u> Pr <u>Street</u> <u>Tunsenbeach El. 34957</u> Er <u>City</u> <u>Istate</u> <u>Zip</u>	mail TMPakm 740 a
Speaking: Y For Against I Information Waive Speak	king: In Support Against
Representing Jewsen Beach Christian C	hurch
Appearing at request of Chair: Yes No Lobbyist registered	d with Legislature: 🔀 Yes 🗌 No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

	THE FLOR	rida Senate	
A . F		ICE RECO or Senate Professional S	RD taff conducting the meeting) Bill Number (if applicable)
Topic Lake Objechobee 7	Jischarges		Amendment Barcode (if applicable)
Name Greg BRAUN			· · · · · · · · · · · · · · · · · · ·
Job Title Ecologist			
Address 10370 Trailwood	Circle		Phone (561) - 575-2028
Street Aupiter City	FL State	33478 Zip	Emaildgregbrauneaol.com
Speaking: 🔀 For 🗌 Against 🗌 In	formation	-	eaking: In Support Against r will read this information into the record.)
Representing <u>Guardians</u> &	Martin	County	
Appearing at request of Chair: Ses	No	Lobbyist registe	ered with Legislature: 🗌 Yes 🔀 No

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THE FLORIDA SENATE	
APPEARANCE RECORD	
(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the Meeting Date $\frac{1}{1}$	e meeting) Bill Number (if applicable)
Topic NEGRON Buy The LANS PLAN	Amendment Barcode (if applicable)
Name EILEEN Du CHA	DAIL lives mater
Job Title	DEREYONE REAS
Address 1838 NE 23RD HIE Phone Phone	ejea war
Street JENSER BEACH FL3487 Email	3, Buy THE LAND
City State Zip	
Speaking: For Against Information Waive Speaking: (The Chair will read the chair	In Support Against is information into the record.)
Representing	
Appearing at request of Chair: Yes No Lobbyist registered with L	egislature: Yes No

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THE FLORIDA SENA APPEARANCE R	
(Deliver BOTH copies of this form to the Senator or Senate Pro Meeting Date BUY He La	fessional Staff conducting the meeting)
Topic Negron'S GREAT PLA.	ł i i i i i i i i i i i i i i i i i i i
Name Irene Gomes	
Job Title Owner Driffwood Molel	
Address 4150 NE INDIAN RIVER Dr. Street Schoen Beach FL.	Phone <u>172-528-4776</u> .
<u>FL: 34957</u>	driftwoodjb@ Email Comcastrnet
Speaking: For Against Information	Vaive Speaking: In Support Against
Representing Drift wood Molel Jente, the Indian River	n Beach FL - Along Lasson
	t registered with Legislature: Yes No
While it is a Senate tradition to encourage public testimony, time may not p meeting. Those who do speak may be asked to limit their remarks so that a	as many persons as possible can be heard.
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THE FLORIDA SENATE	
APPEARANCE RECORI	כ
(Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of this form to the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Professional Staff control (Deliver BOTH copies of the Senator or Senate Profeseinal Staff control (Deliver BOTH copies of the Senator or S	
	Bill Number (if applicable)
Topic Restration of the estamics	Amendment Barcode (if applicable)
Name Jim Harter	
Job Title Pros. Stuart Flurodders, VP Martin CCL Address 3360 SW St. Lucie Shores Dr. P	A Rivers Loalation
Address 3360 SW St. Lucie Shores Dr. P	hone 772486-2499
Sileel	mail piharter 761 eath. net
	king: In Support Against
Representing <u>Everglads</u> trait	
Appearing at request of Chair: Yes No Lobbyist registere	d with Legislature: 🔄 Yes 🗹 No

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THE FLORIDA SENATE	
(Deliver BOTH copies of this form to the Senator or Senate Professional Staff co	
O//0///// Meeting Date	Bill Number (if applicable)
Topic <u>SENATOR NEGRON'S PLAN</u>	Amendment Barcode (if applicable)
Name PAULLAURA	
Job Title Smithsonian MARINE Station/FLORIDA OCRANOGRAP	Hic Society Volunteer
Street	none <u>772.203.6378</u>
<u>JENSEN BÉACH, FL 34957</u> City State Zip	nail PELAHAMBURG @ 6 Maiz, Com
/ 0	ting: In Support Against
Representing Physical ImpairmENT DUE TO TOXICHY of a	BLUE-GREEN ALGAE
Appearing at request of Chair: Yes No Lobbyist registered	l with Legislature: 🗌 Yes 📃 No

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THE FLORIDA SENATE	
APPEARANCE RECO	RD
(Deliver BOTH copies of this form to the Senator or Senate Professional	Staff conducting the meeting)
Jan 1/2016 Meeting Date PURCHASE LAND TO Topic NEGRON'S PLAN TO SEND LAKE O WATE	SOUTTA Bill Number (if applicable)
TOPIC NEGRON'S PLAN TO SEND LARE O WATE	Amendment Barcode (if applicable)
Name SAM HAY	_
Job Title RETIRED	 _
Address 1397 SW VIZCAYA CIRCLE	Phone 772-678-6511
Street <u>PALA CITY FL 34990</u> City State Zip	Email Samh hay @ gnuil. con
	Speaking: In Support Against air will read this information into the record.)
Representing	
Appearing at request of Chair: Yes 📝 No Lobbyist regis	tered with Legislature: 🚺 Yes 💭 No

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THE FLORIDA SENATE	
APPEARANCE RECO	RD
(Deliver BOTH copies of this form to the Senator or Senate Professional S	Staff conducting the meeting)
Meeting Date	Bill Number (if applicable)
Topic <u>Supporting Sen. Nearais Plan</u>	Amendment Barcode (if applicable)
Name Mégan Berane	-
Job Title Communications Director	-
Address 6107 S. Dixie Highway	Phone 561-383-1962
West Palm Beach FL 33405	Email Megan berand
Speaking: For Against Information Waive S	peaking: In Support Against air will read this information into the record.)
Representing Everglades Trust	
Appearing at request of Chair: Yes No Lobbyist regis	tered with Legislature: Yes No

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THE FLORIDA SENATE APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Meeting Date	Bill Number (if applicable)
TOPIC NEGRON PLAN	Amendment Barcode (if applicable)
Name PATTY MCNALLY	
Job Title CREATIVE	
Address <u>529</u> CLEMATIS ST	Phone 561.676.6161
WEST PALMBEACH FL City State	Zip Email
Speaking: X For Against Information	Waive Speaking: In Support Against (The Chair will read this information into the record.)
Representing INDIVIDUAL CITTE	V
Appearing at request of Chair: Yes No	Lobbyist registered with Legislature: Yes No
While it is a Senate tradition to encourage public testimony, time meeting. Those who do speak may be asked to limit their remark.	

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THE FLORIDA SENATE	
APPEARANCE RECO	RD
(Deliver BOTH copies of this form to the Senator or Senate Professional St	aff conducting the meeting)
Meeting Date	Bill Number (if applicable)
Topic Insupport of Negron	Amendment Barcode (if applicable)
Name Machenzie Vecchio	
Job Title FSU Student	1. 200 1/10
Address 224 Hayden Rd aft 215	Phone <u>567-568-107(</u>
<u>tanahassee</u> FL 323CH City State Zip	Email Vecchio 6479
Speaking: For Against Information Waive Sp (The Chai	eaking: In Support Against r will read this information into the record.)
Representing	
Appearing at request of Chair: Yes No Lobbyist registe	ered with Legislature: 🗌 Yes 📃 No

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THE FLORIDA SENA [*]	TE
APPEARANCE R	ECORD
(Deliver BOTH copies of this form to the Senator or Senate Prof $\delta 1 / 11 / 16$	
Meeting Date	Bill Number (if applicable)
Topic Land Aquisition for Everglades Restarat	ί(γ) Amendment Barcode (if applicable)
Name Sophia Fonseca	
Job Title student	· · · · · · · · · · · · · · · · · · ·
Address 223 SW 179th Ave, Street	Phone <u>959 - 240 - 8703</u> .
Pernbroke Pines FL 3302 City State Zip	19 Email sophiacf 619 popmail com
Speaking: For Against Information W	/aive Speaking: In Support Against
Representing FSV's Environmental Se	ervice Pragram
Appearing at request of Chair: Yes X No Lobbyist	t registered with Legislature: Yes No

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THE FL	ORIDA SENATE	
APPEARA	NCE RECO	RD
(Deliver BOTH copies of this form to the Sena	itor or Senate Professional	Staff conducting the meeting)
Meeting Date		Bill Number (if applicable)
Topic Water Projects, Reducher	Lake Odisch	Amendment Barcode (if applicable)
Name Chris Davison	5 Shell Muser	O C
Job Title General Manager - Island Inn	· Director - Sor	hibel+Captiva Chamber of commerce
Address <u>3111 W. GulfDr</u>		Phone (234) 247 - 4161
Street FL	33957	Email chrisde island Masanibel con
City State	Zip	
Speaking: For Against Information		peaking: In Support Against air will read this information into the record.)
Representing Island Inn, Bailey - M	withour Nati	and Shell Museum, Chember of
Appearing at request of Chair: Yes No	Lobbyist regis	tered with Legislature: 🗌 Yes 📶 No

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THE FLORIDA SENATE	
(Deliver BOTH copies of this form to the Senator or Senate Professional	
/ Meeting Date	Bill Number (if applicable)
Topic Buying LAND in the EAA	Amendment Barcode (if applicable)
Name TRENA MERENDINO	_
Job Title	_
Address 303 5W Film ALE	_ Phone 772-626-0863
Address 3035W Film ALE Streets Port St LUCIE F1 34953	Email <u>VAhoo. Com</u>
	Speaking: X In Support Against air will read this information into the record.)
Representing	
Appearing at request of Chair: Yes No Lobbyist regis	stered with Legislature: Yes No
While it is a Senate tradition to encourage public testimony, time may not permit a	Il persons wishing to speak to be heard at this

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THE FLORIDA SENATE APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Meeting Date	Bill Number (if applicable)
Topic In Support of Negron	Amendment Barcode (if applicable)
Name LAWRA (OVEN)	_
Job Title FSU Student	_
Address 1836 W Call Street April 215	Phone <u>%507666533</u>
Tallahassee FL 32304 City State Zip	Email
	peaking: In Support Against air will read this information into the record.)
Representing	/
Appearing at request of Chair: Yes No Lobbyist regist	tered with Legislature: 🗌 Yes 🔽 No

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THE FLOR	IDA SENATE	
$\frac{O}{11/2017}$ (Deliver BOTH copies of this form to the Senator of Meeting Date		
Topic In Support of Negron's Play Name TALIA SAGER	<u>1</u>	Amendment Barcode (if applicable)
Job Title Student Address 2408 Fscambia Dr		Phone
Street Ulabassee FL City State	32304 Zip	Email
Speaking: For Against Information		peaking: Against Against Against in will read this information into the record.)
Representing	······································	
Appearing at request of Chair: Yes No	Lobbyist registe	ered with Legislature: Yes No

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THE FLORIDA SENATE

Tallahassee, Florida 32399-1100

COMMITTEES: Education, Chair Regulated Industries, Vice Chair Appropriations Subcommittee on the Environment and Natural Resources Health Policy Transportation

JOINT COMMITTEE: Joint Committee on Public Counsel Oversight

SENATOR DOROTHY L. HUKILL 14th District

January 6, 2017

The Honorable Rob Bradley Appropriations Subcommittee on the Environment and Natural Resources, Chair 201 The Capitol 404 S. Monroe Street Tallahassee, FL 32399-1100

Re: Request for Excusal from Committee Meeting

Dear Chairman Bradley:

Please excuse me from the Appropriations Subcommittee on the Environment and Natural Resources on January 11, 2017 at 10:00 a.m. as I will not be able to attend due to illness.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Jowsky L. Alkill

Dorothy L. Hukill State Senator, District 14

 cc: Giovanni Betta, Staff Director of the Appropriations Subcommittee on the Environment and Natural Resources
 Lisa Waddell, Committee Administrative Assistant of the Appropriations Subcommittee on the Environment and Natural Resources

> REPLY TO: 209 Dunlawton Avenue, Unit 17, Port Orange, Florida 32127 (386) 304-7630 FAX: (888) 263-3818

> > Senate's Website: www.fisenate.gov

JOE NEGRON President of the Senate ANITERE FLORES President Pro Tempore

ABerured

CourtSmart Tag Report

Case No.: Room: SB 301 Type: Caption: Senate Appropriations Subcommittee on the Environment and Natural Resources Judge: Started: 1/11/2017 10:00:58 AM Ends: 1/11/2017 12:01:07 PM Length: 02:00:10 10:01:21 AM Sen. Bradley (Chair) 10:02:03 AM Introduction of Committee Staff 10:03:29 AM TAB 1 - Lake Okeechobee Discharges 10:04:04 AM Ashley Istler, Attorney, Senate Committee on Environmental Preservation and Conservation Sen. Bradlev 10:12:16 AM 10:14:34 AM TAB 5 - Options to Reduce High Volume Freshwater Flows to the St. Lucie and Caloosahatchee Estuaries and Move More Water from Lake Okeechobee to the Southern Everglades Dr. Wendy Graham, Director, University of Florida Water Institute 10:15:08 AM 10:18:06 AM Sen. Bradley 10:18:59 AM W. Graham 10:19:17 AM Sen. Bradlev 10:19:27 AM W. Graham 10:28:46 AM Sen. Bradley 10:28:58 AM W. Graham 10:31:02 AM Sen. Book 10:31:10 AM W. Graham 10:31:33 AM Sen. Mayfield 10:31:48 AM W. Graham 10:32:07 AM Sen. Bradley Sen. Mayfield 10:32:17 AM W. Graham 10:32:29 AM 10:33:30 AM Sen. Mayfield W. Graham 10:34:04 AM 10:34:50 AM Sen. Bradley 10:35:01 AM W. Graham 10:35:10 AM Sen. Bradley 10:35:30 AM TAB 2 - Presentation by the U.S. Army Corps of Engineers 10:36:02 AM Lt. Colonel Jennifer Reynolds, Deputy District Commander for South Florida, U.S. Army Corps of Engineers Sen. Bradley 10:39:13 AM 10:39:27 AM J. Reynolds 10:39:31 AM Sen. Bradley J. Reynolds 10:39:46 AM Sen. Bradley 10:40:22 AM J. Reynolds 10:40:30 AM 10:45:51 AM Sen. Mayfield 10:46:56 AM J. Reynolds 10:51:45 AM Sen. Mayfield 10:52:07 AM J. Reynolds 10:52:25 AM Sen. Mayfield 10:52:44 AM J. Reynolds 10:53:10 AM Sen. Bradley 10:53:29 AM J. Reynolds 10:53:30 AM Sen. Bradley 10:53:37 AM J. Reynolds 10:53:56 AM Sen. Bradley 10:54:49 AM J. Reynolds 10:56:34 AM Sen. Book 10:56:50 AM J. Reynolds 10:58:14 AM Sen. Mayfield 10:58:36 AM J. Reynolds 10:58:57 AM Sen. Bradley

10:59:32 AM	J. Reynolds
11:02:11 AM	Sen. Mayfield
11:03:08 AM	J. Reynolds
11:05:34 AM	Sen. Mayfield
11:05:59 AM	J. Reynolds
11:06:27 AM	Sen. Book
11:06:35 AM	J. Reynolds
11:07:42 AM	Sen. Bradley
11:08:43 AM	J. Reynolds
11:08:52 AM	Sen. Bradley
11:09:32 AM	TAB 8 - Presentation by Environmental Engineering and Water Resources Management Scientist
11:10:02 AM	Dr. Gary Goforth, Environmental Engineering and Water Resources Management Scientist
11:24:07 AM	Sen. Latvala
11:24:56 AM	G. Goforth
11:25:01 AM 11:25:15 AM	Sen. Bradley G. Goforth
11:26:36 AM	Sen. Latvala
11:26:55 AM	G. Goforth
11:27:28 AM	Sen. Bradley
11:27:42 AM	Sen. Mayfield
11:28:07 AM	Sen. Book
11:28:24 AM	G. Goforth
11:28:42 AM	Sen. Bradley
11:28:54 AM	G. Goforth
11:31:05 AM	Sen. Hutson
11:31:11 AM	G. Goforth
11:31:30 AM	Sen. Mayfield
11:31:37 AM	G. Goforth
11:31:43 AM	Sen. Mayfield
11:31:46 AM 11:32:03 AM	G. Goforth Sen. Mayfield
11:32:20 AM	G. Goforth
11:33:29 AM	Sen. Bradley
11:33:36 AM	TAB 4 - Central Everglades Planning Project
11:33:52 AM	Sen. Latvala
11:33:52 AM	Peter Antonacci, Executive Director, South Florida Water Management District
11:34:15 AM	P. Antonacci
11:34:32 AM	Sen. Latvala
11:34:42 AM	P. Antonacci
11:44:04 AM	Sen. Braynon
11:44:09 AM	P. Antonacci
11:46:52 AM	Sen. Bradley
11:47:00 AM	P. Antonacci
11:47:33 AM	Sen. Bradley
11:47:43 AM	P. Antonacci
11:50:05 AM 11:50:24 AM	Sen. Bradley P. Antonacci
11:53:42 AM	Sen. Hutson
11:54:03 AM	P. Antonacci
11:54:46 AM	Sen. Hutson
11:55:19 AM	P. Antonacci
11:55:57 AM	Sen. Bradley
11:56:19 AM	TAB 9 - Public Testimony
11:57:04 AM	Michael Forestor, Councilman, Village of Islamorada
11:59:32 AM	Sen. Braynon
11:59:44 AM	Sen. Bradley
12:00:11 PM	Melissa McKinley, Commissioner, Palm Beach County
12:01:00 PM	Meeting Adjourned