



SFWMD Program and Project Update

South Florida Ecosystem Restoration Task Force Meeting

July 25, 2018

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Stormwater Treatment Areas (STAs)

Permitted STA Area

1994: 4,000 acres

1999: 9,000 acres

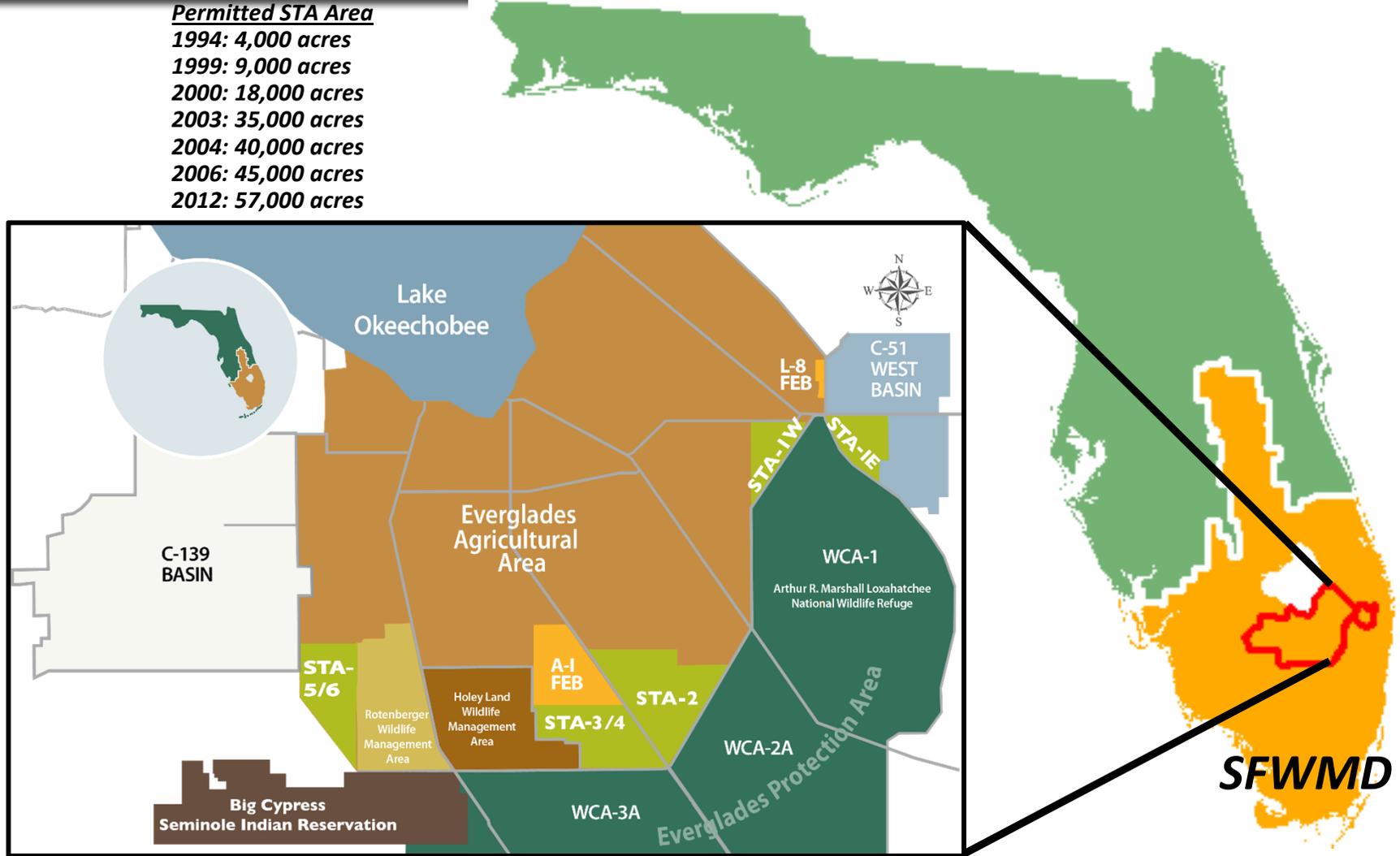
2000: 18,000 acres

2003: 35,000 acres

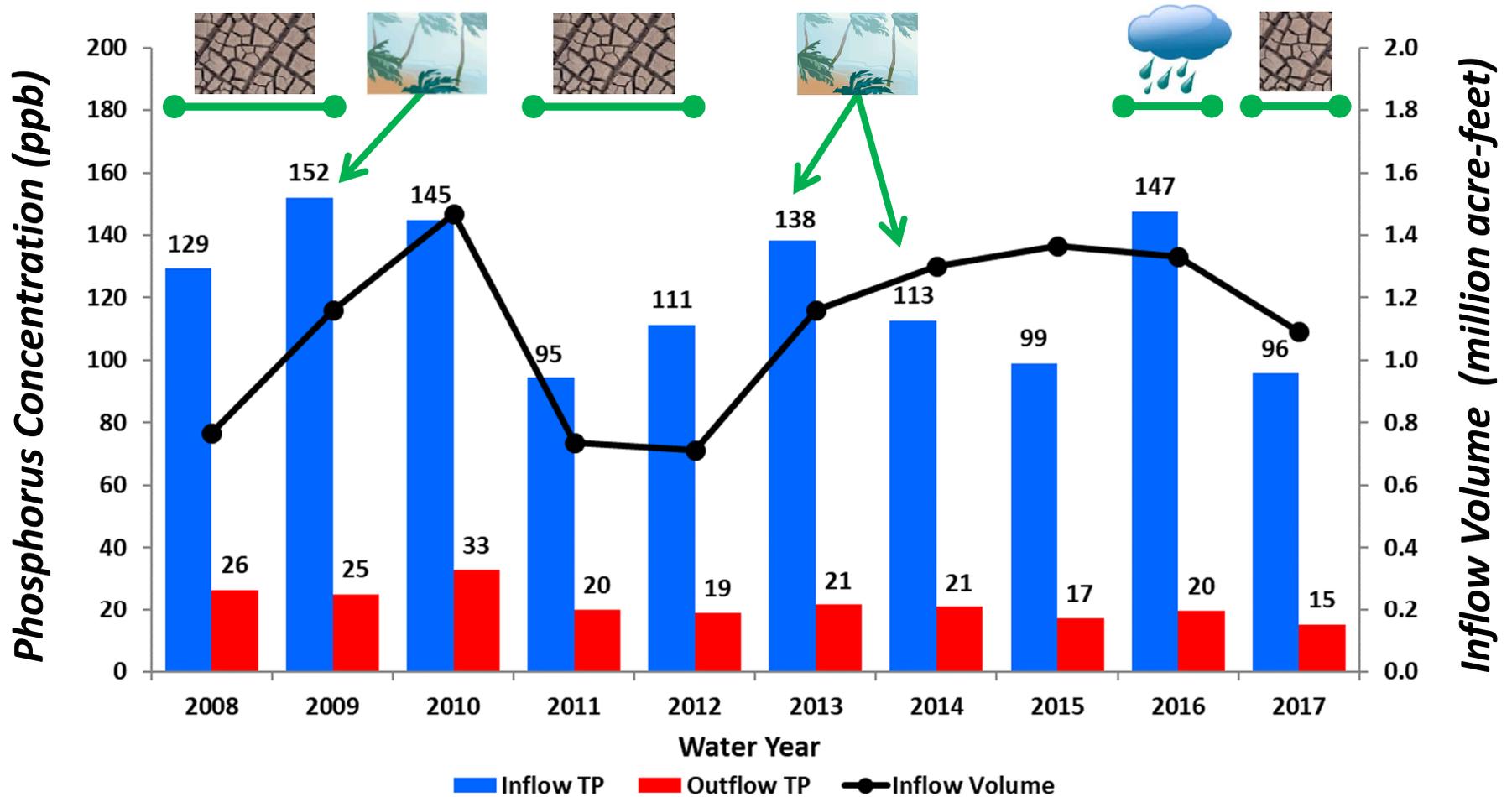
2004: 40,000 acres

2006: 45,000 acres

2012: 57,000 acres



STA Performance: 2008-2017



Restoration Strategies: Key Projects

2012

- 57,000 ac of STA

2012-2016

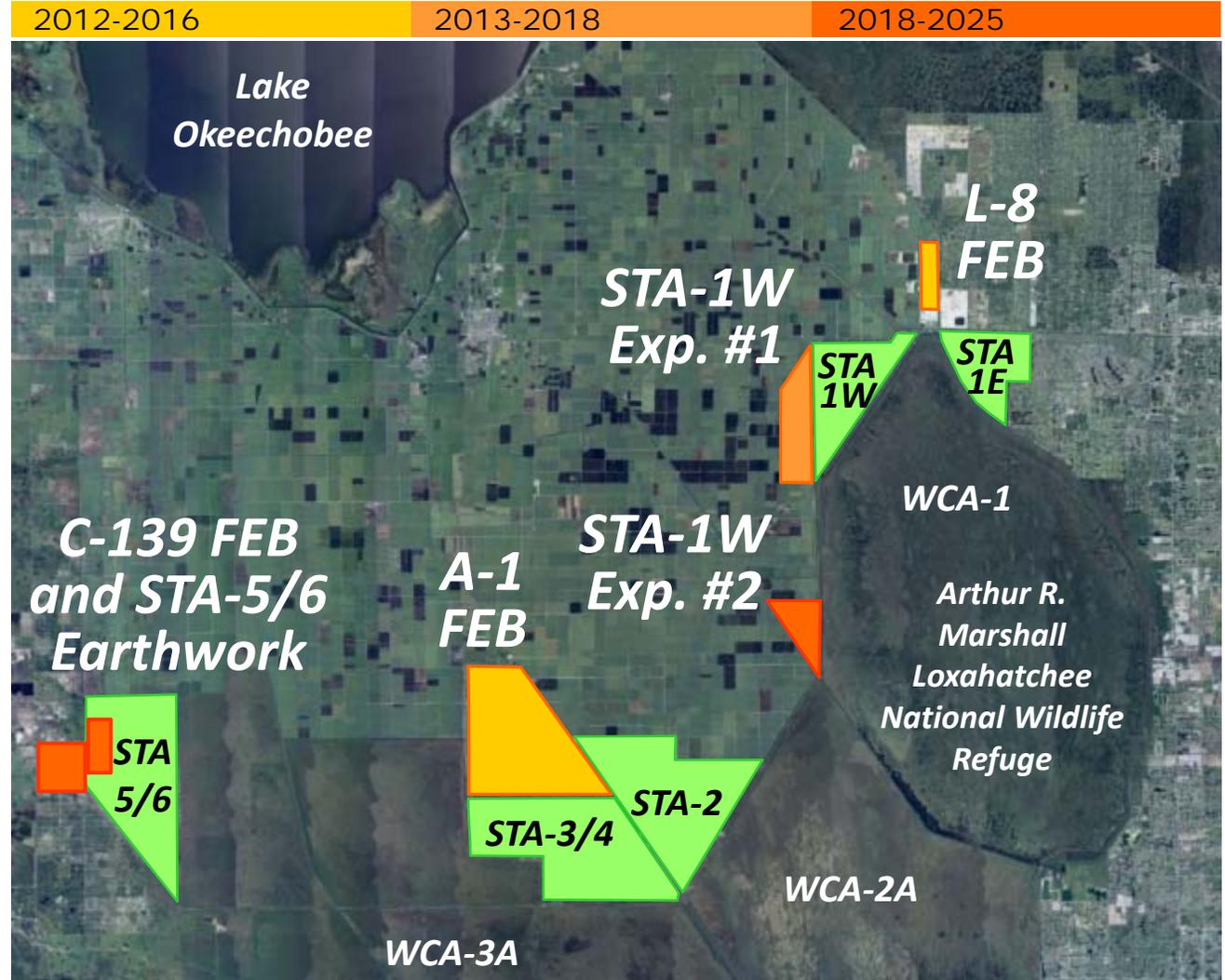
- L-8 FEB (45,000 ac-ft)
- A-1 FEB (60,000 ac-ft)

2013-2018

- STA (4,300 ac)

2018-2025

- STA (1,600 ac)
- C-139 FEB (11,000 ac-ft)
- STA Earthwork (800 ac)



L-8 Flow Equalization Basin (FEB) (Eastern Flowpath)

- *Designed to improve performance of STA-1E and STA-1W*
- *Unique geology allows for deep reservoir*
- *800 acres by 58 feet deep = ~ 45,000 acre-feet of storage*
- *Completed June 2017*



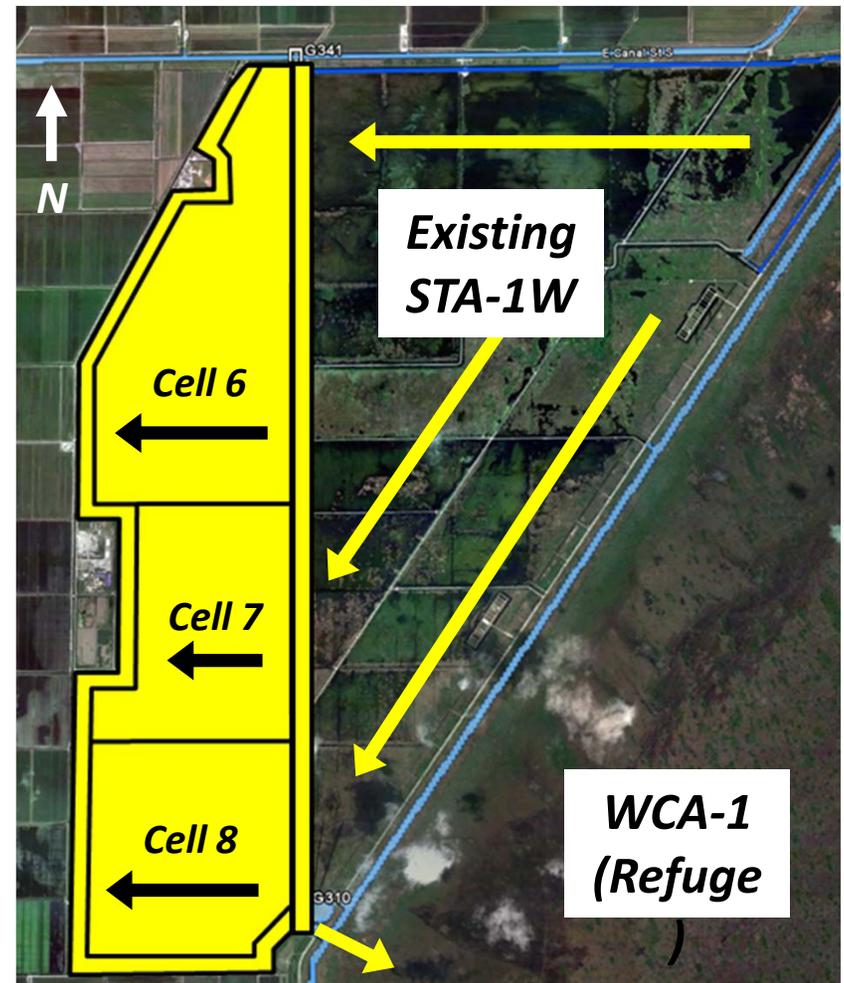
S-375 Expansion (G-716) (Eastern Flowpath)

- *Enables additional flow to be conveyed to L-8 FEB*
- *Completed April 2017*



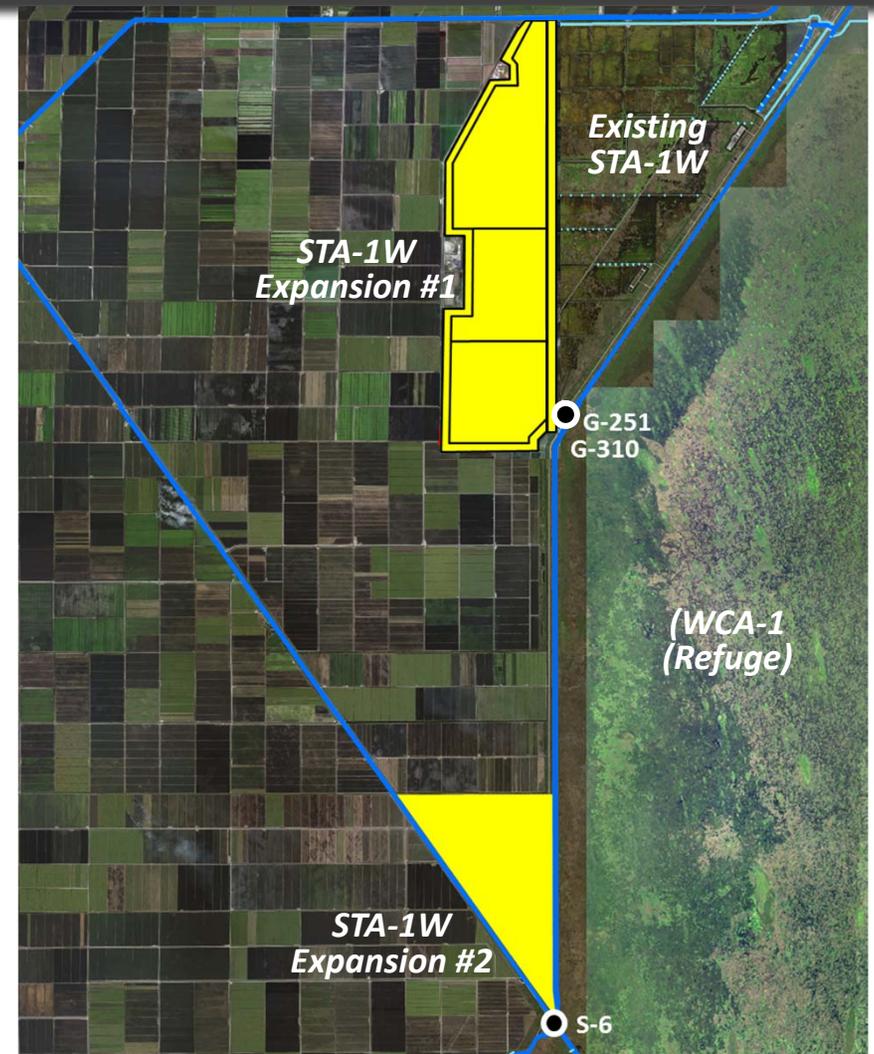
STA-1W Expansion #1 (Eastern Flowpath)

- *Designed to assist STA-1W and STA-1E*
- *4,300 acres of additional stormwater treatment area*
- *Completion of construction expected December 2018*
- *Environmental remediation of ~2,000 acre required to minimize potential risk of ecological impacts*



STA-1W Expansion #2 (Eastern Flowpath)

- ***Designed to assist STA-1W and STA-1E***
- ***1,600 acres of additional treatment area***
- ***Land exchange with federal government to acquire 1,327 acres completed January 2018***
- ***Total SFWMD-owned land for project is ~2,127 acres***
- ***Design to begin October 2018***



A-1 Flow Equalization Basin (Central Flowpath)

- *Designed to improve performance of STA-2 and STA-3/4*
- *15,000 acres by 4 feet deep = ~ 60,000 acre-feet of storage*
- *Completed July 2015*
- *Operational Testing and Monitoring Phase complete July 2018*

Aug. 2015 – Nov. 2017

Inflow Volume
838,000 acre-feet

Inflow P Conc.
97 ppb

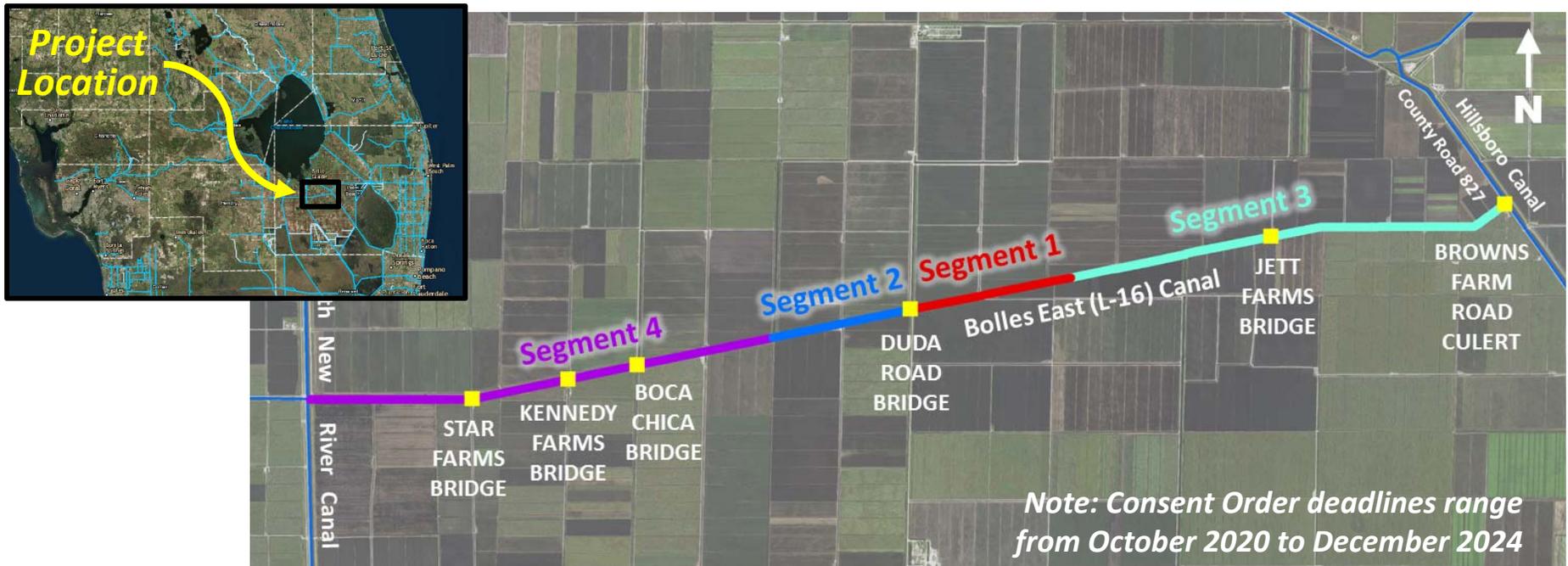
Outflow P Conc.
19 ppb

P Load Reduction
80%



G-341 Related Conveyance Improvements (Central Flowpath)

- ***Bolles East (L-16) Canal Segments 1 and 2 (~2.2 miles) and Duda Road Bridge construction complete***
- ***Segment 3 (~3.2 miles) is 66% complete; completion expected February 2019; Segment 4 design ongoing; construction expected to start February 2019***

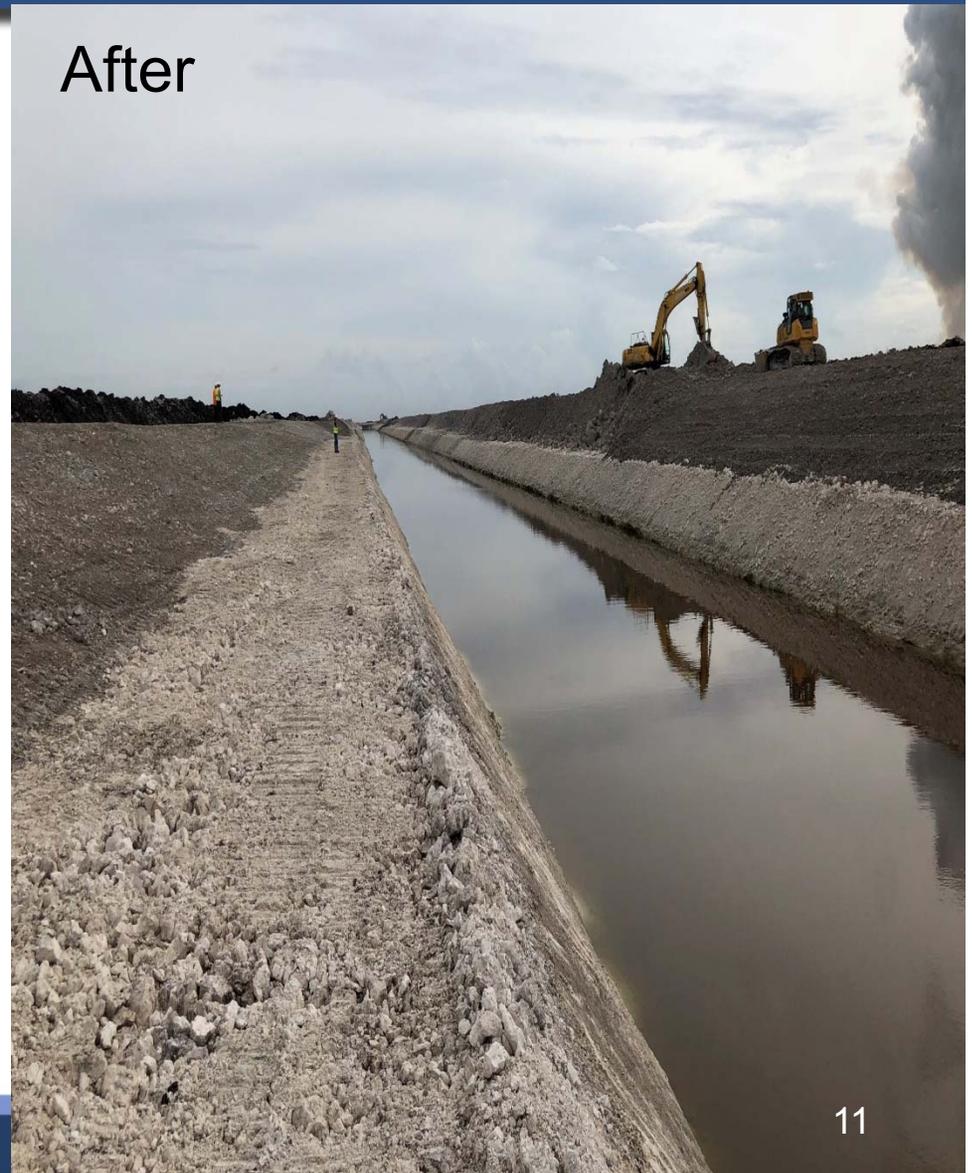


G-341 Related Conveyance Improvements – Bolles East Canal

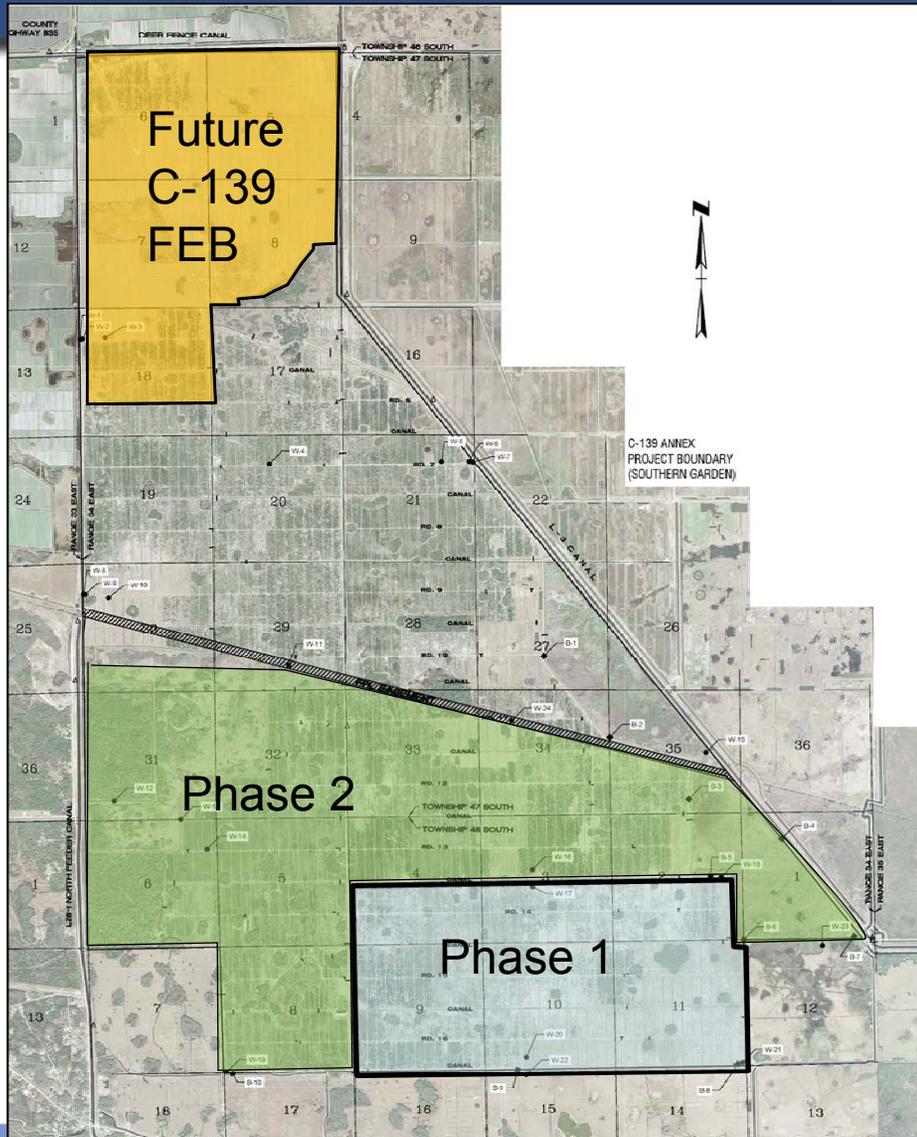
Before



After

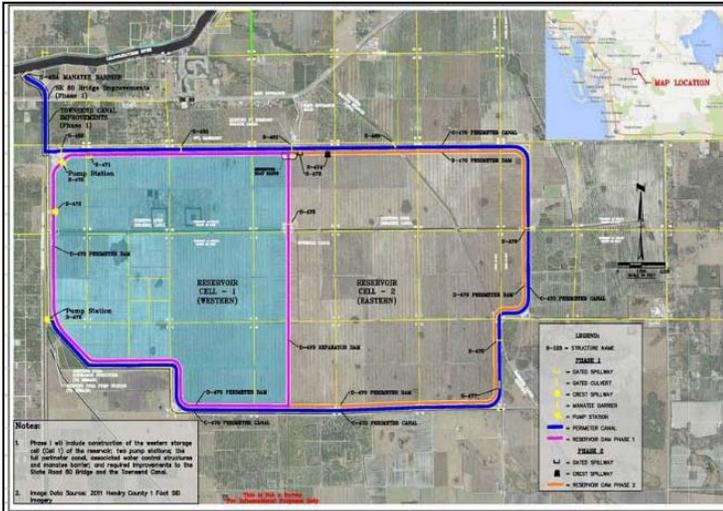


Western Flowpath



- ***C-139 Annex FEB***
 - ***Design activities will begin by October 2018***
- ***STA 5/6 Earthwork***
 - ***Pre-design site assessments for internal improvements are ongoing***
- ***C-139 Annex Restoration (not part of Restoration Strategies)***

C-43 Reservoir (Cell 1)



- **10,500 acres - 170,000 ac-ft reservoir to improve the timing, quantity and quality of freshwater flows to the Caloosahatchee River and Estuary**
- **State began construction in 2015**
 - **Package 1: Preload and Demolition – Complete**
 - **Package 2: Construction of S-476 (195 cfs) Pump Station substantial completion – Fall 2018**
 - **Package 3: S-470 Pump Station substantial completion - Spring 2022**
 - **Package 4: Civil Works in intermediate design**
- **Both Cell 1 and 2 are scheduled for substantial completion by late 2022**



C-44 Reservoir/STA



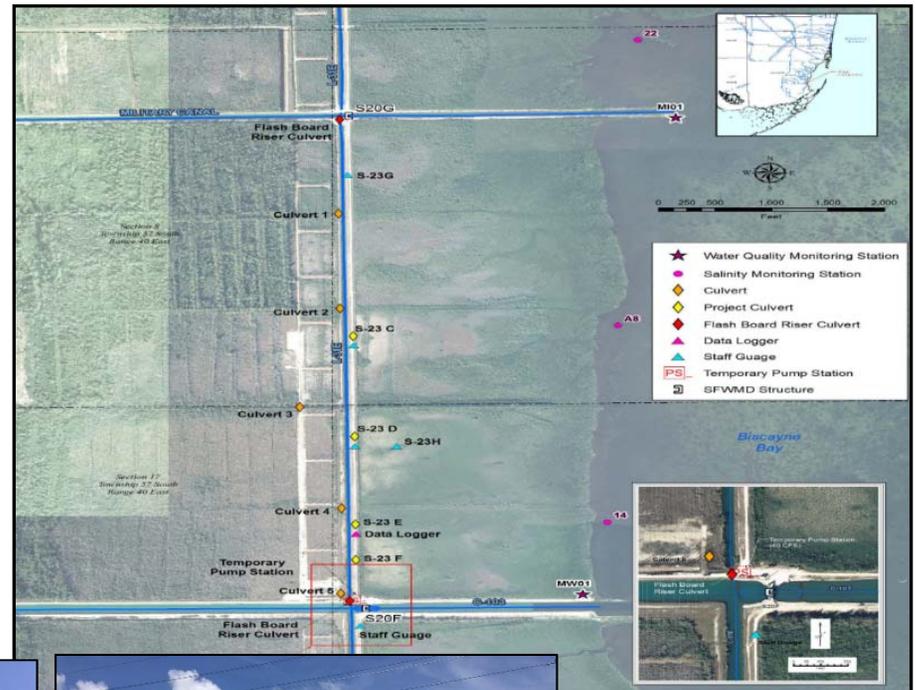
- ***S-404 Spillway Status:***
 - ***Construction complete***
- ***STA Status:***
 - ***Construction Start: October 2014***
 - ***Construction Finish: Spring 2019***
- ***Pump Station Status:***
 - ***Construction Start: April 2015***



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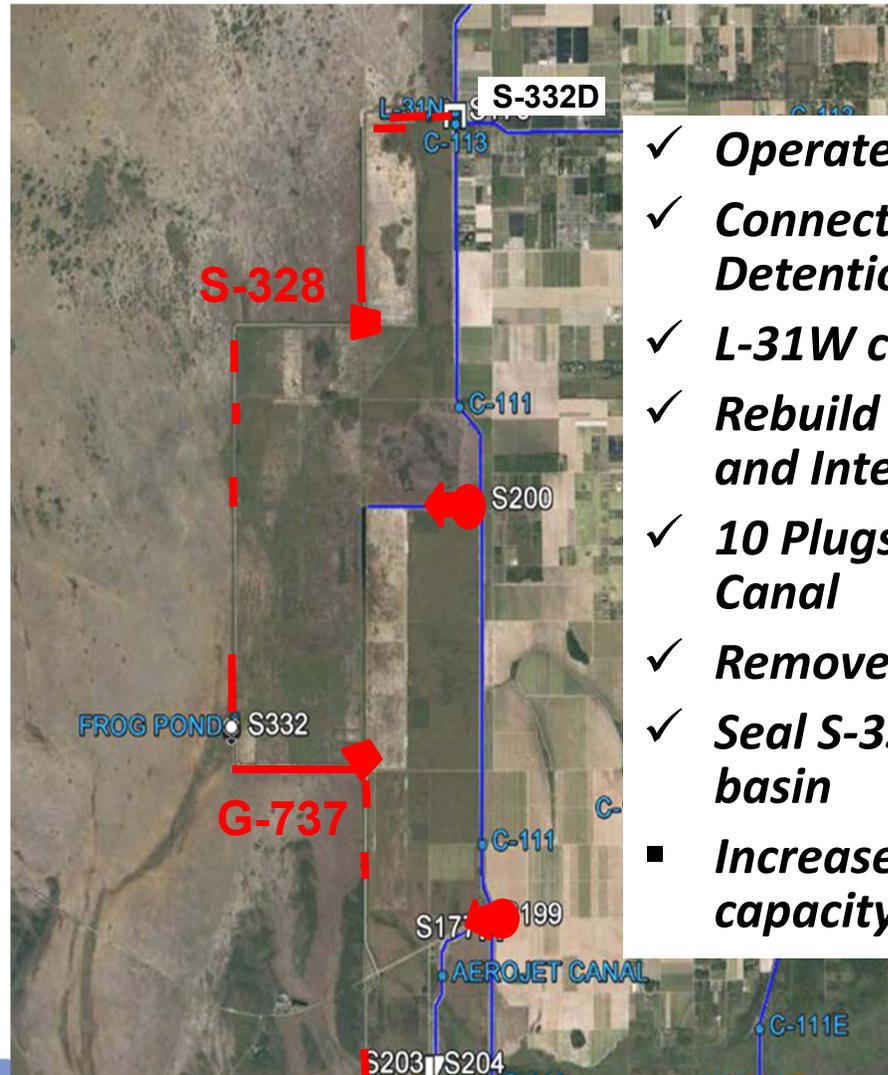
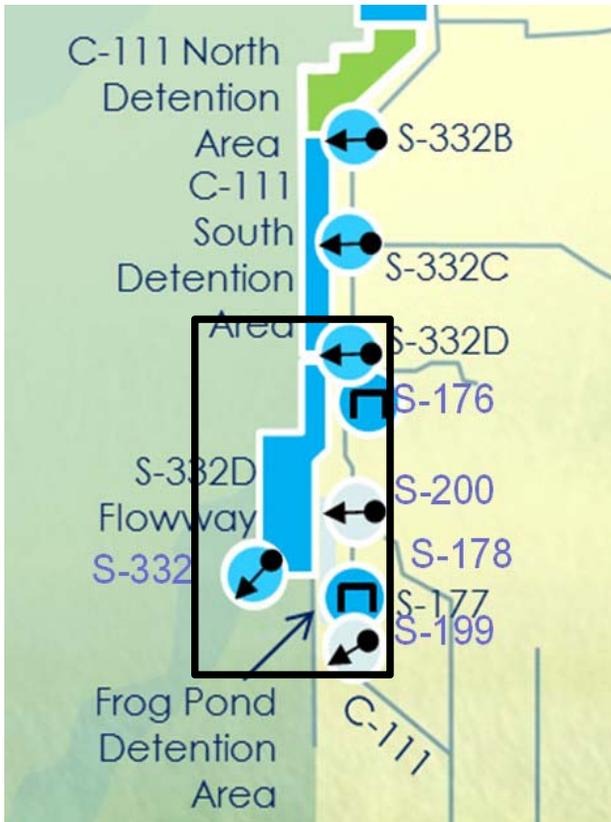
Biscayne Bay Coastal Wetlands Phase 1

- **L-31E Tidal Restoration Components - complete**
- **Deering Estate – complete**
- **L-31E:**
 - **Interim Pump operations – August 2017**
 - **Remaining culverts - begin construction March 2018**
 - **2nd interim pump under development**
- **Cutler Wetlands reinitiate design update October 2019**



Interim pump installed at C-103/ L31E Canals in Homestead, FL

Project Features to Move Water South to Florida Bay



- ✓ **Operate S-328**
- ✓ **Connect Frog Pond Detention Area to L-31W canal (G-737)**
- ✓ **Rebuild L-31W levee and Integral Weir**
- ✓ **10 Plugs in L-31W Canal**
- ✓ **Remove S-327 weir**
- ✓ **Seal S-332D discharge basin**
- **Increase pump capacity**



Discussion