# Restoration Strategies Program Update August 2020

The South Florida Water Management District's (SFWMD) \$880 million Restoration Strategies Program includes the design and construction of a suite of regional water storage, treatment and conveyance improvement projects that will enhance water quality in America's Everglades. The program also includes a robust Science Plan consisting of research activities focused on investigating the critical factors that influence phosphorus (P) reduction and better understanding the sustainability of P removal performance at low P concentrations. The strategies also feature implementation of additional sub-regional source controls – where pollution is reduced at the source – in areas where P levels in stormwater runoff have been historically higher.

**Restoration Strategies Projects** 

#### **Eastern Flow Path**

### Stormwater Treatment Area 1 East (STA-1E) Repairs and Modifications (Cells 5 and 7)

Earthwork to regrade Cell 5 is ongoing. Loading of imported soil is ongoing in Cell 7. Project is on schedule and expected to be completed by October 2022.

### STA-1W Expansion #1

Initial flooding and optimization underway and expected to be completed by December 2020. Earthwork for plugs to allow flow through the new discharge canal is expected during the final quarter of 2020.

### STA-1W Expansion #2

Final Design for civil works delivered in May 2020. Final Design for Pump Stations due by July 2020. Underground pipe Installation under STA-1W Expansion #1 Discharge Canal to be completed by October 2020.

### G-341 Related Conveyance Improvements

Construction of Segment 3 in Bolles East Canal is complete. Jett Farm bridge installation is complete. Construction of Segment 4 is ongoing. Segment 5 will proceed subsequent to Segment 4. Hydraulic modeling of alternatives for other related conveyance improvements is in progress.

### Western Flow Path

### STA-5/6 Internal Improvements

Earthwork to lower ground elevation in Cells 2A and 3A is complete. Final as-built survey drawings have been certified by the engineer-of-record. Milestone Compliance Report received by FDEP. Initial flooding and optimization will commence as hydrologic conditions allow.

### C-139 Flow Equalization Basin (FEB)

Draft Biological opinion received June 2020. Intermediate Design is in review. Final Design deliverable expected by August 2020.

#### Additional Components

### Sub-Regional Source Controls

On-going development of sub-regional source control concepts and coordination with stakeholders.

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#### **Restoration Strategies Science Plan**

Of the fourteen Science Plan studies, six have been completed and eight are in progress.

Operational Guidance for FEB and STA Regional Operation	Completed in 2017
Influence of canal Conveyance on P Concentrations	Completed in 2017
Evaluation of Sampling Methods for TP	Completed in 2017
Periphyton-Based STA Performance, Design and Operational Factors	Completed in 2018
Evaluation of Rooted Floating Aquatic Vegetation in STAs	Completed in 2018
P Forms, Flux and Transformation Processes	Completed in 2019
STA Water and P Budget Improvements for Treatment Performance	In Progress
Vegetation Inundation Depth and Duration Sustainability	In Progress
Soil Amendments to Control P Flux	In Progress
Effects of Faunal Species on P Cycling in STAs	In Progress
Factors for Formation of Floating Tussocks in STAs	In Progress
Improving Resilience of Submerged Aquatic Vegetation in STAs	In Progress
L-8 FEB and STA Operational Guidance	In Progress
Periphyton and Phytoplankton P Uptake and Release	In Progress

Project: Activity	Deadline	Date Completed
Eastern Flow Path		
STA-1W Expansion #1: Complete Construction	12/31/2018	12/27/2018
STA -1W Expansion #1: Initial Flooding and Optimization	12/31/2020	
STA-1W Expansion #2: Initiate Design	10/1/2018	9/25/2018
STA-1W Expansion #2: State and Federal Permit Applications	8/1/2019	7/29/2019
STA-1W Expansion #2: Complete Design	7/31/2020	7/16/2020
STA-1W Expansion #2: Initiate Construction	11/30/2020	
G-341 Related Conveyance Improvements: Initiate Construction	11/30/2022	8/13/2015
G-341 Related Conveyance Improvements: Complete Construction	12/31/2024	
Central Flow Path		
A-1 FEB: Operational Monitoring and Testing Period Complete	7/29/2018	7/29/2018
Western Flow Path		
C-139 FEB: Initiate Design	10/31/2018	8/22/2018
C-139 FEB: Submit State and Federal Permit Applications	8/30/2019	8/23/2019
C-139 FEB: Complete Design	10/31/2020	
STA-5/6 Internal Improvements: Initiate Construction	1/31/2022	9/25/2018
STA-5/6 Internal Improvements: Construction Status Report	3/1/2023	9/24/2019
STA-5/6 Internal Improvements: Complete Construction	12/31/2024	5/4/2020
STA-5/6 Initial Flooding and Optimization Period	12/31/2025	

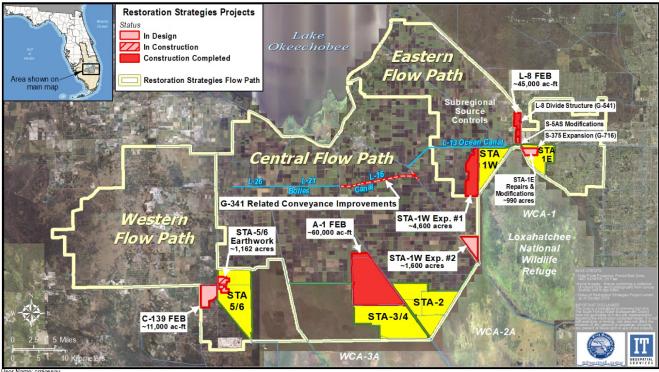
1: FDEP Consent Order 12-1148 (associated with National Pollutant Discharge Elimination System Permit No. FL0778451-001-FL7A/RA) and FDEP Consent Order 12-1149 (associated with Everglades Forever Act Permit No. 0311207)

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Construction progress on Segment 4 of Bolles East Canal as part of G-341 Related Conveyance



Improvements Restoration Strategies Map



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