

Restoration Strategies Program Update October 2018

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 improve 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. Through September 2018, total program expenditures are approximately \$306 million, and all projects are scheduled to be complete by December 2025.

Eastern Flowpath

Stormwater Treatment Area 1 West (STA-1W) Expansion #1

Construction is 86 percent complete; Completion expected December 2018

Stormwater Treatment Area 1 West (STA-1W) Expansion #2

The Consent Order Milestone to Initiate Design has been completed; Design activities will be conducted in FY2019

G-341 Related Conveyance Improvements

Bolles East Canal Segment 3 (~3.2 miles) construction is 83 percent complete and expected to be complete by February 2019; Design of Segment 4 is ongoing, and construction is expected to start by February 2019;

Central Flowpath

A-1 Flow Equalization Basin (FEB)

The A-1 Flow Equalization Basin is in routine operations

Western Flowpath

STA-5/6 Internal Improvements

The Consent Order Milestone to Initiate Design has been completed; The Consent Order Milestones for Completion of Design, Submittal of State and Federal Permits and Initiate Construction are in process and nearing completion.

C-139 Flow Equalization Basin (FEB)

The Consent Order Milestone to Initiate Design has been completed;
Design activities will be conducted in FY2019

Additional Components

Sub-Regional Source Controls

Development of sub-regional source control concepts and coordination with stakeholders is ongoing

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Stormwater Treatment Area (STA) Science Plan

There are currently twelve Science Plan Studies. Of these twelve studies, three have been completed, two are nearing completion and seven 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	Nearing Completion
Evaluation Rooted Floating Aquatic Vegetation in STAs	Nearing Completion
P Forms, Flux and Transformation Processes	In-Progress
STA Water and P Budget Treatment Performance Improvements	In-Progress
Vegetation Inundation Depth and Duration Sustainability	In-Progress
Soil Amendments to Control P Flux	In-Progress
Factors for Formation of Floating Tussocks in STAs	In-Progress
Effects of Faunal Species on P Cycling in STAs	In-Progress
Improving Resilience of Sub-Aquatic Vegetation in STAs	In-Progress

Consent Order¹ Milestones

Project: Activity	Deadline	Date Completed
Eastern Flowpath		
STA-1W Expansion #1: Construction Status Report	3/1/2018	2/23/2018
STA-1W Expansion #1: Complete Construction	12/31/2018	
STA-1W Expansion #2: Complete Land Acquisition	3/31/2018	1/31/2018
STA-1W Expansion #2: Initiate Design	10/1/2018	9/25/18
L-8 Divide Structure: Complete Construction	9/30/2018	7/7/2016
S-375 Expansion: Complete Construction	12/31/2018	4/3/2017
G-341 Related Conveyance Improvements: Initiate Construction	11/30/2022	8/13/2015
G-341 Related Conveyance Improvements: Complete Construction	12/31/2024	
Central Flowpath		
A-1 FEB: Operational Monitoring and Testing Period Complete	7/29/2018	7/29/2018
Western Flowpath		
C-139 FEB: Initiate Design	10/31/2018	8/22/18
STA-5/6 Internal Improvements: Initiate Design	10/31/2019	9/10/2018
STA-5/6 Internal Improvements: Submit Permit Applications	8/30/2020	
STA-5/6 Internal Improvements: Complete Design	10/31/2021	
STA-5/6 Internal Improvements: Initiate Construction	10/31/2022	

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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STA-1 W Expansion#1: Blasting of the collection canal in the north west corner of Cell 6(September 2018)