

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 OperationCompleted 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 FactorsCompleted in 2018
 Evaluation of Rooted Floating Aquatic Vegetation in STAsCompleted in 2018
 P Forms, Flux and Transformation ProcessesCompleted 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

Consent Order¹ Milestones

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)

