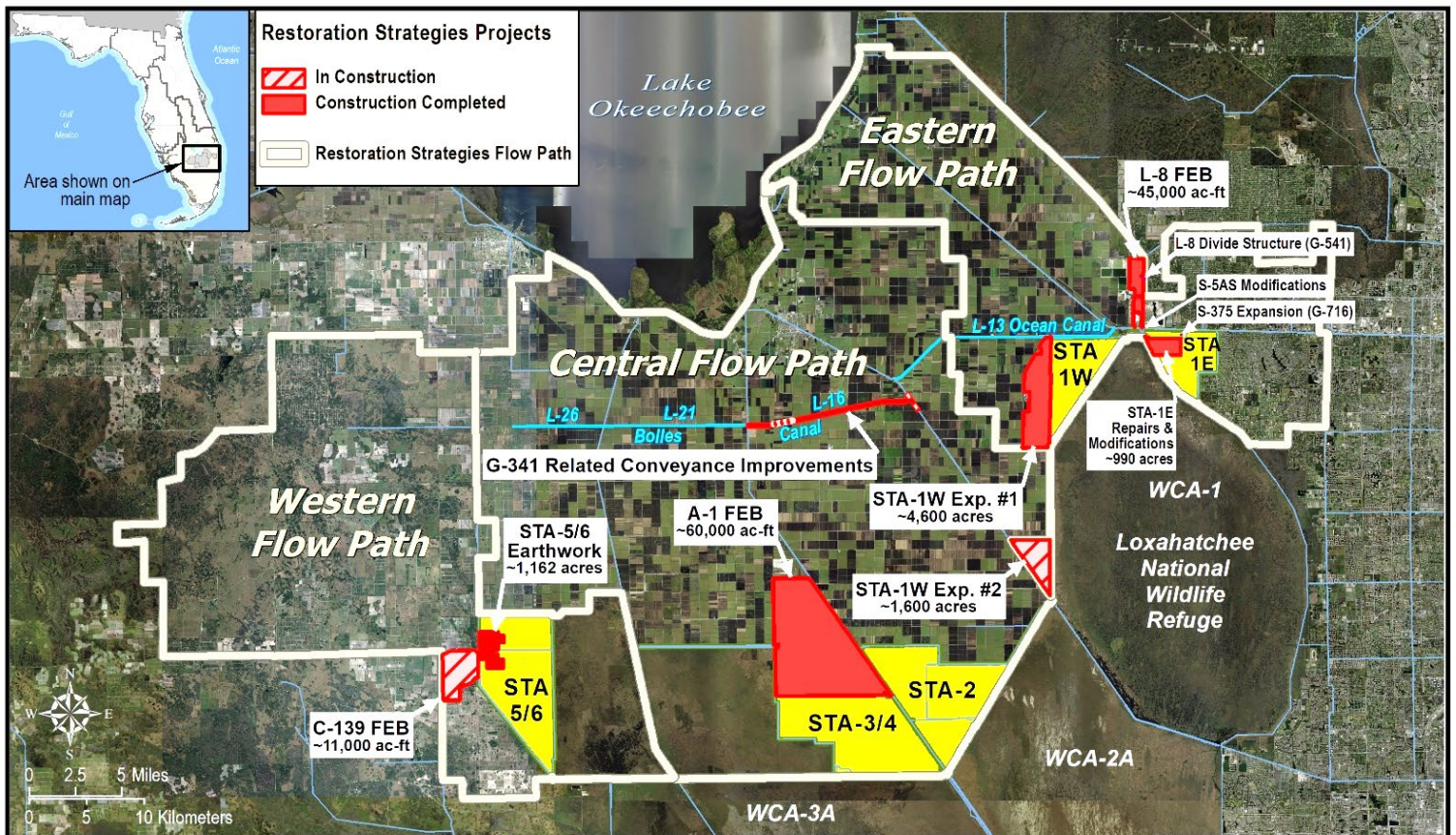


Restoration Strategies Program and Stormwater Treatment Area Enhancement Update June 2023

The South Florida Water Management District's (District) \$880 million Restoration Strategies Program is improving water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects over a 13-year timeline. The program includes a robust Science Plan focused on investigating the critical factors that influence phosphorus reduction and a better understanding of improving treatment performance at low phosphorus concentrations. A third part of the program is investigation of additional sub-regional source controls – where pollution is reduced at the source – in areas where phosphorus levels in stormwater runoff have been historically higher.

In 2012, FDEP issued watershed National Pollutant Discharge Elimination System (NPDES) and Everglades Forever Act (EFA) permits to the District to continue to operate its STAs. At the same time, Consent Orders were issued with these permits that require the District to construct 13 projects on an aggressive timeline to be completed by December 2025 with specific milestone due dates for each project activity. To date, nine projects and 92% of all Consent Order activities have been completed. Upon completion of all Restoration Strategies projects, the permits require each STA to meet the Water Quality Based Effluent Limit (WQBEL), to ensure that the State's water quality standard for the Everglades is achieved.

In addition to the Restoration Strategies projects, the District is enhancing the performance of all five Everglades STAs through a series of construction projects to refurbish, rehabilitate, and renew large portions of the STAs, some of which have been in operation for more than 20 years. Refurbishments are ongoing in STA-1E, STA-2 and STA-3/4.



User Name: ermoylan
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Restoration Strategies Flow Paths and Projects

Restoration Strategies Program and Stormwater Treatment Area Enhancement Update June 2023

Eastern Flow Path

STA-1W Expansion #2

Construction of Civil Works and Pump Stations is ongoing. Pumps were installed, and roof and wall panel construction has been completed in G-780 and G-781. Because of contractor issues beyond the control of the District, construction was not completed by the December 31, 2022 milestone due date. The District continues to work closely with the contractors to expeditiously obtain functional use of the project as early as possible.

G-341 Related Conveyance Improvements

Segment 5 construction is ongoing. Construction of the Star Farms and Kennedy Bridges are complete. Substantial completion of segment 5 construction is anticipated for July 2023.

STA-1W Refurbishment

Vegetation management activities are ongoing in newly graded areas. Replacement of structures between Cells 1B and 3 scheduled for mid July 2023.

Central Flow Path

STA-2 Refurbishment

Repair of 49 plugs in interior borrow canal of Cell 3 is ongoing. Thirteen plugs are complete and sodded.

Western Flow Path

STA-5/6 Internal Improvements

Cells 2A and 3A are currently in the Initial Flooding and Optimization Period.

C-139 Flow Equalization Basin (FEB)

Construction activity for the G-550 inflow pump station, G-551 outflow structure, and G711E divide structure, including the south-east expansion area, are ongoing. Levee and canal construction, and land-levelling are ongoing. Substantial construction completion date is August 2023.

Connection of STA-5/6 to Lake Okeechobee

Phase 1 design to improve canal conveyance, build a permanent pump station, and rely on interim facilities to connect the Miami Canal to the inflow of STA-5/6 via L-3 Canal is ongoing. Embankment/Canal Design analysis is ongoing. Construction of G-775 temporary pumps is ongoing. Expected construction completion date for G-775 is October 2023.

Restoration Strategies Program and Stormwater Treatment Area Enhancement Update June 2023

Restoration Strategies Science Plan

Twelve Science Plan studies have been completed and nine studies are ongoing.

Ongoing Science Plan Studies

Completion By

Marl Study	June 2023
Biomarker Study	July 2023
Ecotopes Study	September 2023
L-8 FEB and STA Operational Guidance	September 2023
Effects of Faunal Species on P Cycling in STAs.....	November 2023
P Dynamics Study.....	March 2024
Periphyton and Phytoplankton P Uptake and Release.....	May 2024
Landscape Study	July 2024
Data Integration Study	September 2024

Picture of the Month



Restoration Strategies Science Plan Study: P-Dynamic Soil sampling by helicopter in STA 3/4 Cell 2B

Restoration Strategies Program and Stormwater Treatment Area Enhancement Update June 2023

EASTERN FLOW PATH				CENTRAL FLOW PATH			
STA-1W Expansion #2 (100864)		Activity	Deadline				
Complete land acquisition	3/31/2018	✓					
Initiate design	10/1/2018	✓					
Submit state and federal permit applications	8/1/2019	✓					
Complete design	7/31/2020	✓					
Initiate construction	11/30/2020	✓					
Construction status report	3/1/2021	✓					
Construction status report	3/1/2022	✓					
Complete construction	12/31/2022						
Initial flooding and optimization period complete	12/31/2024						
STA-1W Expansion #1 (100818)		Activity	Deadline				
Complete land acquisition	9/30/2013	✓					
Initiate design	9/30/2013	✓					
Submit state and federal permit applications	7/30/2014	✓					
Complete design	7/30/2015	✓					
Initiate construction	1/31/2016	✓					
Construction status report	3/1/2017	✓					
Construction status report	3/1/2018	✓					
Complete construction	12/31/2018	✓					
Initial flooding and optimization period complete	12/31/2020	✓					
STA-1E Repairs and Modifications		Activity	Deadline				
PSTA Decommissioning complete	12/31/2022	✓					
Culvert repairs complete	12/31/2022	✓					
Cell 5 and 7 improvements complete	12/31/2022	✓					
L-8 FEB (100813)		Activity	Deadline				
Submit state and federal permit applications	1/31/2014	✓					
Construction status report	3/1/2014	✓					
Construction status report	3/1/2015	✓					
Complete construction (begin multi-purpose ops)	12/31/2016	✓					
Long term operations commence	12/31/2022	✓					
G-341 Related Conveyance Improvements (100802)		Activity	Deadline				
Initiate design	10/1/2020	✓					
Submit state and federal permit applications	8/1/2021	✓					
Complete land acquisition (if required)	9/30/2021	✓					
Complete design	7/31/2022	✓					
Initiate construction	11/30/2022	✓					
Construction status report	3/1/2023	✓					
Construction status report	3/1/2024	✓					
Complete construction	12/31/2024						
L-8 Divide Structure (100817)		Activity	Deadline				
Initiate design	10/1/2012	✓					
Complete design	9/30/2014	✓					
Initiate construction	10/1/2016	✓					
Complete construction	9/30/2018	✓					
S-5AS Modifications (100822)		Activity	Deadline				
Initiate design	10/1/2012	✓					
Complete design	9/30/2014	✓					
Initiate construction	10/1/2014	✓					
Complete construction	9/30/2016	✓					
S-375 Expansion (100819)		Activity	Deadline				
Initiate design	9/30/2013	✓					
Complete design	7/30/2015	✓					
Initiate construction	1/31/2016	✓					
Complete construction	12/31/2018	✓					
LEGEND							
			Flow Equalization Basin				
			Stormwater Treatment Area				
			Conveyance Improvement				
		✓	Complete				
STA-2 Expansion: Compartment B		Activity	Deadline				
COMPLETE		Initial flooding and optimization period complete	5/31/2014	✓			
A-1 FEB (100706)		Activity	Deadline				
COMPLETE		Initiate design	4/1/2012	✓			
		Submit state and federal permit applications	12/1/2012	✓			
		Design status report	3/1/2013	✓			
		Complete design	8/1/2013	✓			
		Initiate construction	6/30/2014	✓			
		Construction status report	3/1/2015	✓			
		Construction status report	3/1/2016	✓			
		Complete construction	7/30/2016	✓			
		Operational monitoring and testing period complete	7/29/2018	✓			
STA-5/6 Internal Improvements (100868)		Activity	Deadline				
		Initiate design	10/31/2019	✓			
		Submit state and federal permit applications	8/30/2020	✓			
		Complete design	10/31/2021	✓			
		Initiate construction	1/31/2022	✓			
		Construction status report	3/1/2023	✓			
		Construction status report	3/1/2024	✓			
		Complete construction	12/31/2024	✓			
		Initial flooding and optimization period complete	12/31/2025				
STA-5/6 Expansion: Compartment C		Activity	Deadline				
COMPLETE		Initial flooding and optimization period complete	5/31/2014	✓			
C-139 FEB (100867)		Activity	Deadline				
		Initiate design	10/31/2018	✓			
		Submit state and federal permit applications	8/30/2019	✓			
		Complete design	10/31/2020	✓			
		Initiate construction	1/31/2021	✓			
		Construction status report	3/1/2021	✓			
		Construction status report	3/1/2022	✓			
		Construction status report	3/1/2023	✓			
		Complete construction	12/31/2023				
		Operational monitoring and testing period complete	12/31/2024				

Projects Complete = 9 of 13
 Activities Complete = 68 of 74
 % Activities Complete = 92 %
 % Time Complete = 80 %

Revised April 20, 2023