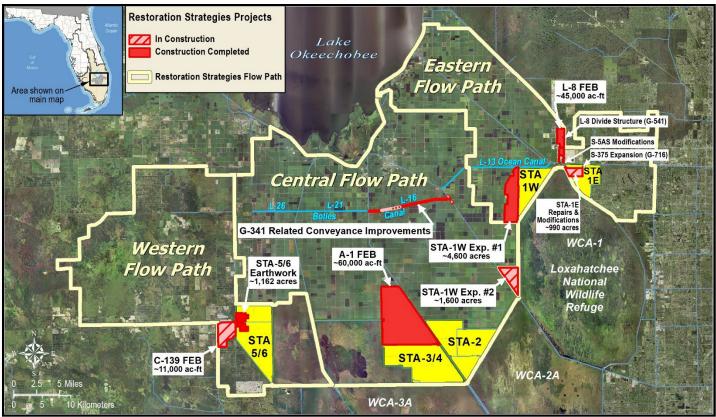
The South Florida Water Management District's (District) \$880 million Restoration Strategies Program will improve water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects 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. The existing Everglades STAs, an essential component of Restoration Strategies, are unique constructed treatment wetlands designed to improve the quality of water flowing into the Everglades. 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 the existing Everglades STAs through a series of construction projects to refurbish, rehabiliate, and renew large portions of the existing facilities, some of which have been in operation for the last 20 years.



Restoration Strategies Flow Paths and Projects

Eastern Flow Path

STA-1E Repairs and Modifications (Cells 5 and 7)

Earthwork to regrade Cells 5 to correct topographic deficiencies of the original construction is complete. Vegetation management planting activities are ongoing. Cell 7 regrade is ongoing. Substantial completion is expected by January 2022.

STA-1W Expansion #2

Construction of Civil Works and Inflow Pump Station is ongoing. Formwork and reinforcing steel installation for the lower walls and columns of G-780 and G-781 pump stations is ongoing. Sheet pile installation for G-782 pump station is complete. Blasting for Collection Canal is complete

G-341 Related Conveyance Improvements

Construction of Segment 4 is complete. Segment 5 design is ongoing and is expected to be finalized in late December 2021.

STA-1W Refurbishment

Earthwork for various enhancements is ongoing. Work includes 50-acre regrade in Cell 3 to remove finger canals, levee realignment between Cells 5B and 2A for improved flow patterns, removal of levees and structures between Cells 2B and 4, and replacement of structures between Cells 1B and 3. The 2B /4 levee removal is complete. The Cell 3 earthwork is complete and vegetation management activities are ongoing. The levee removal between 5B and 2A levee is near completion. Substantial completion of all STA-1W refurbishments is expected in March 2022.

Central Flow Path

STA-2 Refurbishment

Earthwork to regrade uneven topography in the northern portion of Cell 2 is ongoing. The earthwork involves lowering an area in northeast Cell 2 and raising a 500-acre low-lying area in northwest Cell 2. The northeast regade area is nearly complete.

Earthwork to make 49 cuts through remnant farm berms in Cell 3 is complete.

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 and G-551 structures are ongoing. ERP Permits for G-552 and G-711E complete.

Connection of STA-5/6 to Lake Okeechobee

Hydraulic Feasibility Study and Conceptual Design have been completed. Phase 1 design will commence in December 2021 to improve conveyance, build a pump station, and rely on temporary facilities to connect the Miami Canal to the inflow of STA-5/6.

Restoration Strategies Science Plan

Of the fourteen Science Plan studies, eight have been completed and six are in progress. Six additional study proposals have been approved.

Ongoing Science Plan Studies	Completion By
Factors for Formation of Floating Tussocks in STAs	Sept 2022
L-8 FEB and STA Operational Guidance	Sept 2022
Improving Resilience of Submerged Aquatic Vegetation in STAs	Sept 2022
Effects of Faunal Species on P Cycling in STAs	Sept 2023
Periphyton and Phytoplankton P Uptake and Release	Sept 2023
Soil Amendments to Control P Flux	Sept 2023
Additional Studies	
Biomarker Study	Sept 2022
Fauna study	Sept 2023
Ecotopes Study	Sept 2023
P Dynamics Study	Sept 2023
Data Integration Study	Sept 2024
Marl Study	Sept 2024



District employees filtering water samples for analyses (P dynamics study).

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		G-341 Related Conveyance Improvements (1	00802)		STA-2 Expansion: Compartment B	
Deadline		Activity	Deadline		Activity COMPLETE	Deadline
3/31/2018	✓	Initiate design	10/1/2020	✓	Initial flooding and optimization period complete	5/31/2014
10/1/2018	✓	Submit state and federal permit applications	8/1/2021	✓		
8/1/2019	✓	Complete land acquisition (if required)	9/30/2021	✓	A-1 FEB (100706)	
7/31/2020	✓	Complete design	7/31/2022		Activity	Deadline
11/30/2020	✓	Initiate construction	11/30/2022	✓	Initiate design	4/1/2012
3/1/2021	✓	Construction status report	3/1/2023	✓	Submit state and federal permit applications	12/1/2012
3/1/2022		Construction status report	3/1/2024		Design status report	3/1/2013
12/31/2022		Complete construction	12/31/2024		Complete design	8/1/2013
12/31/2024					Initiate construction COVPLE E	6/30/2014
		L-8 Divide Structure (100817)			Construction status report	3/1/2015
		Activity	Deadline		Construction status report	3/1/2016
Deadline		Initiate design COMPLETE	10/1/2012	✓	Complete construction	7/30/2016
9/30/2013	✓	Complete design COIVIPLE IE	9/30/2014	✓	Operational monitoring and testing period complete	7/29/2018
9/30/2013	✓	Initiate construction	10/1/2016	✓		
7/30/2014	1	Complete construction	9/30/2018	1	WESTERN FLOW PATH	
7/30/2015	1	•			STA-5/6 Internal Improvements (100868)	
		S-5AS Modifications (100822)				, Deadline
	1	·	Deadline			10/31/2019
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Initiate design		/		8/30/2020
		Complete design COMPLETE				10/31/2021
						1/31/2022
12/02/2020						3/1/2023
		complete construction	3/30/2010			3/1/2024
Deadline		S-375 Expansion (100819)			· · · · · · · · · · · · · · · · · · ·	12/31/2024
	1	• • • • • •	Deadline			12/31/2025
		Initiate desire		1	initial nodding and optimization period complete	12, 31, 2023
	ĺ	Complete design COMPLETE	-,,		STA-5/6 Expansion: Compartment C	
12/01/2022						Deadline
					COIVIFELLE	5/31/2014
Deadline		Comprete construction	12, 01, 2010		mada nooding and optimization period complete	3,32,201
	1				C-139 FFR (100867)	
		LEGEND				Deadline
		Flow Equalization Basin				10/31/2018
		Stormwater Treatment Area				8/30/2019
	Ċ	Conveyance Improvement				10/31/2020
12/01/2022		✓ Complete				1/31/2021
iects Complete =	7 of 1	3				3/1/2021
					·	3/1/2021
•		, T				3/1/2022
Time Complete =					Complete construction	12/31/2023
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ri	10/1/2018 8/1/2019 7/31/2020 11/30/2020 3/1/2021 3/1/2022 12/31/2022 12/31/2024 Deadline 9/30/2013 9/30/2013 7/30/2014 7/30/2015 1/31/2016 3/1/2017 3/1/2018 12/31/2020 Deadline 12/31/2022 12/31/2022 12/31/2022 12/31/2022 12/31/2022 12/31/2022 12/31/2022 12/31/2015 12/31/2016 12/31/2016 12/31/2019 peadline 1/31/2014 3/1/2014 3/1/2015 12/31/2015 12/31/2015 12/31/2016 12/31/2022	10/1/2018	Submit state and federal permit applications	10/1/2018	10/1/2018	Submit state and federal permit applications 8/1/2021