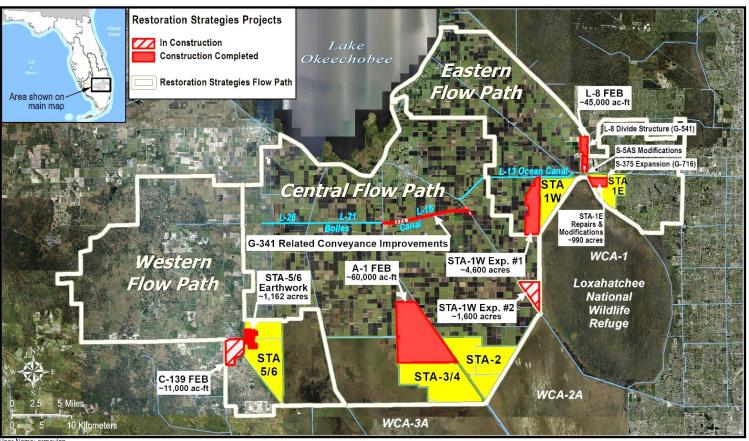
The South Florida Water Management District's (District) \$880 million Restoration Strategies Program is improving water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects 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, ten projects and 93% 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, rehabiliate, and renew large portions of the STAs, some of which have been in operation for the last 20 years. Refurbishments have been completed at STA-1E, STA-1W, and STA-3/4.



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Restoration Strategies Flow Paths and Projects

Eastern Flow Path

STA-1W Expansion #2

Construction of Civil Works and Inflow Pump Stations is ongoing. Formwork and reinforcing steel installation activities for pump stations G-780, G-781 and G-782 are ongoing. Construction was not completed by the milestone due date of December 31, 2022 due to contractor issues beyond the control of the District. The District continues working closely with the contractor 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 bridge began in early December 2022. Demolition of the Kennedy bridge is underway. Bridge construction completion expected by April 2023.

STA-1W Refurbishment

Vegetation management activities are ongoing in newly graded areas. Replacement of structures between Cells 1B and 3 will occur in 2023.

Central Flow Path

STA-2 Refurbishment

Earthwork to restore Cell 2 to design elevation is complete. Repair of 15 of 37 canal plugs are complete; 11 additional plugs remain. Received GB contract approval for fill to repair 49 canal plugs in Cell 3 and remaining 22 canal plugs in Cell 2. Cell 3 earthwork to begin in early March.

Western Flow Path

STA-5/6 Internal Improvements

Cells 2A and 3A initial flooding and optimization period is complete.

C-139 Flow Equalization Basin (FEB)

Construction activity for the G-550 inflow pump station, G-551 outflow structure, and G711E divide structure are ongoing. ERP Permits for G-552 are complete. 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 conveyance, build a pump station, and rely on temporary facilities to connect the Miami Canal to the inflow of STA-5/6 is ongoing. Embankment/Canal Design analysis is ongoing. Review of the preliminary submittal and the final design of G-775 Interim Pumps is due by March. Expected construction start date of G-775 is in March 2023.

Restoration Strategies Science Plan

Eleven Science Plan studies have been completed and ten studies are ongoing.

Ongoing Science Plan Studies	Completion By
Biomarker Study	Jun 2023
Ecotopes Study	Sept 2023
Effects of Faunal Species on P Cycling in STAs	Sept 2023
L-8 FEB and STA Operational Guidance	Sept 2023
Landscape Study	Sept 2023
P Dynamics Study	Sept 2023
Periphyton and Phytoplankton P Uptake and Release	Sept 2023
Advection Study	Sept 2024
Data Integration Study	Sept 2024
Marl Study	Sept 2024



Faunal Study: Impacts of the Nile Tilapia (possibly Nile – Blue Tilapia hybrid)

EASTERN FLOW PATH						CENTRAL FLOW PATH	CENTRAL FLOW PATH			
STA-1W Expansion #2 (100864)			G-341 Relat	ed Conveyance Improvements (1	00802)		STA-2 Expansion: Compartment B			
Activity	Deadline		Activity		Deadline		Activity COMPLETE	Deadline		
Complete land acquisition	3/31/2018	1	Initiate design		10/1/2020	1	Initial flooding and optimization period complete	5/31/2014	✓	
nitiate design	10/1/2018	1	Submit state and federal	permit applications	8/1/2021	1				
Submit state and federal permit applications	8/1/2019	1	Complete land acquisition	on (if required)	9/30/2021	1	A-1 FEB (100706)			
Complete design	7/31/2020	1	Complete design	, ,	7/31/2022	1	Activity	Deadline		
nitiate construction	11/30/2020	1	Initiate construction		11/30/2022	1	Initiate design	4/1/2012	✓	
Construction status report	3/1/2021	1	Construction status repo	ort	3/1/2023	1	Submit state and federal permit applications	12/1/2012	✓	
onstruction status report	3/1/2022	1	Construction status repo	ort	3/1/2024	✓	Design status report	3/1/2013	1	
Complete construction	12/31/2022		Complete construction		12/31/2024		Complete design	8/1/2013	✓	
nitial flooding and optimization period complete	12/31/2024						Initiate construction COMPLETE	6/30/2014	✓	
			l l	8 Divide Structure (100817)			Construction status report	3/1/2015	✓	
STA-1W Expansion #1 (100818)			Activity	,	Deadline		Construction status report	3/1/2016	1	
Activity	Deadline		Initiate design	COMPLETE	10/1/2012	1	Complete construction	7/30/2016	1	
Complete land acquisition	9/30/2013	1	Complete design	COMPLETE	9/30/2014	1	Operational monitoring and testing period complete	7/29/2018	-	
nitiate design	9/30/2013	1	Initiate construction		10/1/2016	1		1,20,2020		
ubmit state and federal permit applications	7/30/2014	1	Complete construction		9/30/2018	1	WESTERN FLOW PATH			
	7/30/2015	1	complete constituenon		3,30,2020	•	STA-5/6 Internal Improvements (100868	1		
	1/31/2016	7		TAC Madifications (100022)				•		
	15.7	, ·		6-5AS Modifications (100822)	5 U		Activity	Deadline	١,	
Construction status report	3/1/2017	√	Activity		Deadline	1	Initiate design	10/31/2019	Y,	
Construction status report	3/1/2018	V	Initiate design	COMPLETE	10/1/2012	V	Submit state and federal permit applications	8/30/2020	Y,	
Complete construction	12/31/2018	√	Complete design	COMPLETE	9/30/2014	V	Complete design COMPLETE	10/31/2021	ď	
nitial flooding and optimization period complete	12/31/2020	•	Initiate construction		10/1/2014	√		1/31/2022	ď	
OTA 45 D			Complete construction		9/30/2016	•	Construction status report	3/1/2023	ď	
STA-1E Repairs and Modifications							Construction status report	3/1/2024	Y	
Activity COMPLETE	Deadline			S-375 Expansion (100819)			Complete construction	12/31/2024	-	
PSTA Decommissioning complete	12/31/2022	✓.	Activity		Deadline		Initial flooding and optimization period complete	12/31/2025	✓	
Culvert repairs complete	12/31/2022	✓.	Initiate design	COMPLETE	9/30/2013	✓.				
Cell 5 and 7 improvements complete	12/31/2022	✓	Complete design	COMPLETE	7/30/2015	✓	STA-5/6 Expansion: Compartment C			
			Initiate construction		1/31/2016	✓	Activity COVPLETE	Deadline		
L-8 FEB (100813)			Complete construction		12/31/2018	✓	Initial flooding and optimization period complete	5/31/2014	✓	
Activity	Deadline									
ubmit state and federal permit applications	1/31/2014	✓		LEGEND			C-139 FEB (100867)			
Construction status report COMPLETE	3/1/2014	✓					Activity	Deadline		
onstruction status report	3/1/2015	1		Flow Equalization Basin			Initiate design	10/31/2018	✓	
omplete construction (begin multi-purpose ops)	12/31/2016	1		Stormwater Treatment Area			Submit state and federal permit applications	8/30/2019	✓	
ong term operations commence	12/31/2022	✓		Conveyance Improvement			Complete design	10/31/2020	✓	
			_	✓ Complete			Initiate construction	1/31/2021	✓	
Pr	ojects Complete =	= 10 o	f 13				Construction status report	3/1/2021	1	
Activities Complete = 69 of 74						Construction status report	3/1/2022	✓		
% Activities Complete = 93 %						Construction status report	3/1/2023	✓		
% Time Complete = 79 %					Complete construction	12/31/2023				
	•						Operational monitoring and testing period complete	12/31/2024		

Revised February 20, 2023