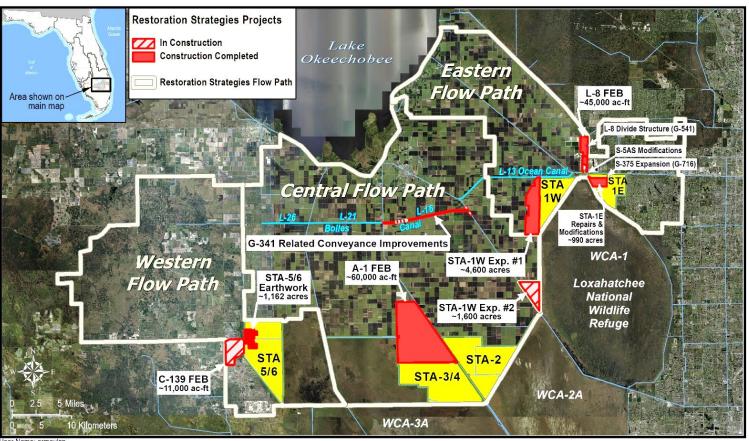
The South Florida Water Management District's (District) \$880 million Restoration Strategies Program is improving water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects 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, eight projects and 88% of all Consent Order activities have been completed with one additional project to be completed in 2022. 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 G-780, G781 and G782 are ongoing.

#### **G-341 Related Conveyance Improvements**

Segment 5 construction is ongoing. Mobilization of equipment and materials for construction of Star Farms and Kennedy bridges impacted by Hurricane Ian is ongoing. Construction is expected to start in early December 2022.

Currently approved date for bridge construction completion 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 raise a 530-acre low-lying area in northwest Cell 2 to design elevation is ongoing, 495 acres have been raised, and approximately 35 acres remain. Substantial completion is expected in January 2023.

#### **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 are ongoing. ERP Permits for G-552 are complete. Levee and canal construction and land-levelling are ongoing. South-eastern boundary expansion work approved by the District. Received authorization to work on the southern end from DEP. Modified EFA Permit and Section 404 Permit for S-E boundary expansion expected by early December, 2022.

### 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.

Design of G-775 interim pump station is ongoing.

## **Restoration Strategies Science Plan**

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

Ongoing Science Plan Studies	<b>Completion By</b>
Biomarker Study	Jan2023
Ecotopes Study	Sept 2023
L-8 FEB and STA Operational Guidance	Sept 2023
P Dynamics Study	Sept 2023
Landscape Study	Sept 2023
Effects of Faunal Species on P Cycling in STAs	Sept 2023
Periphyton and Phytoplankton P Uptake and Release	Sept 2023
Advection Study	Sept 2024
Data Integration Study	Sept 2024
Marl Study	Sept 2024

PICTURE OF THE MONTH



Photo depicts activities of the Ecotope Study. This aerial view shows the effect of short-circuits within a mixed SAV habitat using a tracer.

EASTERN FLOW PATH						CENTRAL FLOW PATH		
STA-1W Expansion #2 (100864)			G-341 Related Conveyance Improvements (10	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	✓	Submit state and federal permit applications	8/1/2021	1			•
submit state and federal permit applications	8/1/2019	1	Complete land acquisition (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	1
Construction status report	3/1/2021	1	Construction status report	3/1/2023	1	Submit state and federal permit applications	12/1/2012	1
Construction status report	3/1/2022	✓	Construction status report	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-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	Initiate design Complete design Complete design	9/30/2014	1	Operational monitoring and testing period complete	7/29/2018	1
nitiate design	9/30/2013	1	Initiate construction	10/1/2016	1			
Submit state and federal permit applications	7/30/2014	1	Complete construction 9/30/2018 ✓		WESTERN FLOW PATH			
	7/30/2015	1	5/ 5/ 2020		STA-5/6 Internal Improvements (100868)			
omplete design COMPLETE	1/31/2016	1	S-5AS Modifications (100822)			Activity (200000)	, Deadline	
onstruction status report	3/1/2017	1	Activity (100022)	Deadline		Initiate design	10/31/2019	,
Construction status report	3/1/2017	1	Initiata darian	10/1/2012	1	Submit state and federal permit applications	8/30/2020	Ż
Complete construction	12/31/2018	1	Complete design COMPLETE	9/30/2014	1	Complete design	10/31/2021	Ż
nitial flooding and optimization period complete	12/31/2010	1	Initiate construction	10/1/2014	1	Initiate construction	1/31/2022	1
initial flooding and optimization period complete	12/31/2020	•	Complete construction	9/30/2016	1	Construction status report	3/1/2023	Ż
STA-1E Repairs and Modifications			Complete construction	9/30/2010	•	Construction status report	3/1/2023	,
and the control of th	Deadline		S-375 Expansion (100819)			· ·	12/31/2024	
Activity COMPLETE		1		B dir		Complete construction		•
PSTA Decommissioning complete	12/31/2022	<b>√</b>	Activity	Deadline	1	Initial flooding and optimization period complete	12/31/2025	
Culvert repairs complete	12/31/2022	<b>v</b>	Initiate design Complete design Complete design	9/30/2013	<b>*</b>	STA F/S Francisco Comments and S		
Cell 5 and 7 improvements complete	12/31/2022	•		7/30/2015		STA-5/6 Expansion: Compartment C		
L 0 FFD (400040)			Initiate construction	1/31/2016	<b>V</b>	CUIVIPLEIE	Deadline	_
L-8 FEB (100813)			Complete construction	12/31/2018	✓	Initial flooding and optimization period complete	5/31/2014	<b>*</b>
Activity	Deadline	,				0.400 FFD (4.000 ST)		
ubmit state and federal permit applications	1/31/2014	<b>V</b>	LEGEND			C-139 FEB (100867)		
Construction status report	3/1/2014	1	Flow Equalization Basin			Activity	Deadline	
Construction status report	3/1/2015	<b>V</b>	Stormwater Treatment Area			Initiate design	10/31/2018	<b>V</b>
omplete construction (begin multi-purpose ops)	12/31/2016	✓	Conveyance Improvement			Submit state and federal permit applications	8/30/2019	✓.
ong term operations commence	12/31/2022		✓ Complete			Complete design	10/31/2020	1
			•			Initiate construction	1/31/2021	<b>1</b>
Projects Complete = 8 of 13				Construction status report	3/1/2021	٧.		
	Activities Complete = 65 of 74				Construction status report	3/1/2022	_	
% Activities Complete = 88 %				Construction status report	3/1/2023			
% Time Complete = 74 %				Complete construction	12/31/2023			
						Operational monitoring and testing period complete	12/31/2024	

Revised June 15, 2022