

Restoration Strategies Program and Stormwater Treatment Area Enhancement Update December 2020

Eastern Flow Path

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

Earthwork to regrade Cell 5 and importing of soil in Cell 7 to correct topographic deficiencies in the original construction are ongoing. Project is on schedule and expected to be completed by October 2022.

STA-1W Expansion #1

Milestone compliance report for Initial flooding and optimization period being finalized. Earthwork to relocate plug in Expansion #1 Discharge Canal is ongoing and expected to be complete in December 2020.

STA-1W Expansion #2

Notice to proceed for civil works construction was issued in September 2020. Underground pipe installation under STA-1W Expansion #1 Discharge Canal complete. Governing Board approval of pump station construction obtained in November. Notice to Proceed to be issued in December 2020.

G-341 Related Conveyance Improvements

Construction of Segment 3 in Bolles East Canal is complete. Construction of Segment 4 is ongoing. Segment 5 is in design and expected to start construction in 2021.

STA-1E Refurbishment

Degrade remnant farm roads and fill ditches in Cell 6. Amphibious excavator mobilized; work is ongoing.

STA-1W Refurbishment

Earthwork for various enhancements are ongoing. Work includes regrade of 50 acres in Cell 3 to remove finger canals, realign levee between Cells 5B and 2A for improved flow patterns, remove levees and structures between Cells 2B and 4, and replace structures between Cells 1B and 3.

Central Flow Path

STA-2 Refurbishment

Earthwork to regrade a 500-acre low-lying area, repair plugs in borrow canal, and other enhancements in Cell 2 is ongoing. Final Design complete for 49 cuts through remnant farm berms in Cell 3.

Western Flow Path

STA-5/6 Internal Improvements

Currently in initial flooding and optimization for Cells 2A and 3A.

C-139 Flow Equalization Basin (FEB)

USACE permit and Final Design deliverable have been received. Bid recommendation and approval to initiate construction is scheduled for **December Governing Board**.

Connection of STA-5/6 to Lake Okeechobee

Hydraulic Feasibility Study ongoing and expected to be complete by mid-December 2020. Conceptual design and options are complete. Review of Technical Report is ongoing.

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Restoration Strategies Science Plan

Of the fourteen Science Plan studies, seven have been completed and seven are in progress. Four additional study proposals have been approved and are ready to start.

<u>Ongoing Science Plan Studies</u>	<u>Completion By</u>
Vegetation Inundation Depth and Duration Sustainability.....	Sept 2021
Factors for Formation of Floating Tussocks in STAs	Sept 2021
L-8 FEB and STA Operational Guidance	Sept 2021
Improving Resilience of Submerged Aquatic Vegetation in STAs	Sept 2022
Effects of Faunal Species on P Cycling in STAs	Sept 2022
Periphyton and Phytoplankton P Uptake and Release.....	Sept 2023
Soil Amendments to Control P Flux	Sept 2023

<u>Additional Studies</u>	
Biomarker Study.....	Sept 2022
Fauna study.....	Sept 2023
Data Integration Study	Sept 2023
P Dynamics Study	Sept 2023



Eastern view of Segment 4 farm ditches and farm road replacement (G-341 Related Conveyance Improvements). Image depicts muck removal down to rock layer prior to placement of farm road and canal levee.

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EASTERN FLOW PATH			CENTRAL FLOW PATH		
STA-1W Expansion #2 (100864)	Activity	Deadline	G-341 Related Conveyance Improvements (100802)	Activity	Deadline
Complete land acquisition	10/1/2018	✓	Initiate design	10/1/2020	✓
Initiate design	3/31/2018	✓	Submit state and federal permit applications	8/1/2021	✓
Submit state and federal permit applications	8/1/2019	✓	Complete land acquisition (if required)	9/30/2021	✓
Complete design	7/31/2020	✓	Complete design	7/31/2022	✓
Initiate construction	11/30/2020	✓	Initiate construction	11/30/2022	✓
Construction status report	3/1/2021	✓	Construction status report	3/1/2023	✓
Construction status report	3/1/2022	✓	Construction status report	3/1/2024	✓
Complete construction	12/31/2022	✓	Complete construction	12/31/2024	✓
Initial flooding and optimization period complete	12/31/2024	✓			
STA-1W Expansion #1 (100818)	Activity	Deadline	L-8 Divide Structure (100817)	Activity	Deadline
Complete land acquisition	9/30/2013	✓	Initiate design	10/1/2012	✓
Initiate design	9/30/2013	✓	Complete design	9/30/2014	✓
Submit state and federal permit applications	7/30/2014	✓	Initiate construction	10/1/2016	✓
Complete design	7/30/2015	✓	Complete construction	9/30/2018	✓
Initiate construction	1/31/2016	✓			
Construction status report	3/1/2017	✓	S-5AS Modifications (100822)	Activity	Deadline
Construction status report	3/1/2018	✓	Initiate design	10/1/2012	✓
Complete construction	12/31/2018	✓	Complete design	9/30/2014	✓
Initial flooding and optimization period complete	12/31/2020	✓	Initiate construction	10/1/2014	✓
			Complete construction	9/30/2016	✓
STA-1E Repairs and Modifications	Activity	Deadline	S-375 Expansion (100819)	Activity	Deadline
PSTA Decommissioning complete	12/31/2022	✓	Initiate design	9/30/2013	✓
Culvert repairs complete	12/31/2022	✓	Complete design	7/30/2015	✓
Cell 5 and 7 improvements complete	12/31/2022	✓	Initiate construction	1/31/2016	✓
			Complete construction	12/31/2018	✓
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	✓			
			LEGEND		
			<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ■ Flow Equalization Basin </div> <div style="text-align: center;"> ■ Stormwater Treatment Area </div> <div style="text-align: center;"> ■ Conveyance Improvement </div> </div> <p>✓ Complete</p>		
				STA-2 Expansion: Compartment B	Activity
				Initial flooding and optimization period complete	5/31/2014 ✓
				A-1 FEB (100706)	Activity
				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 ✓
				WESTERN FLOW PATH	
				STA-5/6 Internal Improvements (100868)	Activity
				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
				Initial flooding and optimization period complete	5/31/2014 ✓
				C-139 FEB (100867)	Activity
				Initiate design	10/31/2018 ✓
				Submit state and federal permit applications	8/30/2019 ✓
				Complete design	10/31/2020 ✓
				Initiate construction	December 2020 Governing Board 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

Total Projects = 13
 Projects Complete = 6

 Total Activities = 74
 Activities Complete = 55

 % Complete = 74%

Revised November 22, 2020