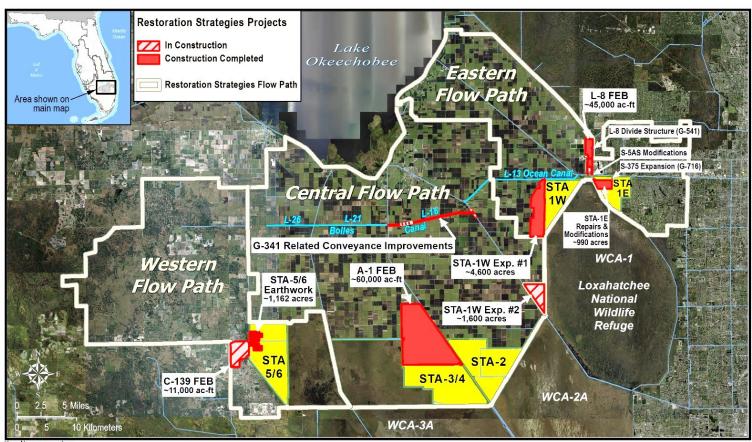
The South Florida Water Management District's (District) \$880 million Restoration Strategies Program is improving water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects 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, rehabiliate, and renew large portions of the STAs, some of which have been in operation for more than 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. Pumps have been installed in G-780, roof construction will follow immediately after. 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 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 and Kennedy Bridges are ongoing with completion expected by mid May 2023. Substantial completion of segment 5 construction is anticipated for August 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.

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.

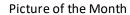
Connection of STA-5/6 to Lake Okeechobee

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. Backcheck review of preliminary design submittal is currently ongoing. Final design of G-775 temporary pumps is complete. Expected construction completion date for G-775 is October 2023.

Restoration Strategies Science Plan

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

| Ongoing Science Plan Studies | <u>Completion By</u> |
|---|----------------------|
| Marl Study | June 2023 |
| Biomarker Study | July 2023 |
| Ecotopes Study | September 2023 |
| L-8 FEB and STA Operational Guidance | September 2023 |
| Landscape Study | 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 |
| Data Integration Study | September 2024 |





Restoration Strategies Science Plan Landscape Study: This "Straight" flume will be used to measure flow effects on hydraulic mixing. Resistance will be measured once vegetation is added.

| EASTERN FLOW PATH | | | | | | CENTRAL FLOW PATH | | |
|---|--------------------------|------------|---|------------|---|--|-------------------------|----------|
| STA-1W Expansion #2 (100864) | | | G-341 Related Conveyance Improvements | s (100802) | | STA-2 Expansion: Compartment B | | |
| ctivity | Deadline | | Activity | Deadline | | Activity COMPLETE | Deadline | |
| omplete land acquisition | 3/31/2018 | 1 | Initiate design | 10/1/2020 | 1 | Initial flooding and optimization period complete | 5/31/2014 | 1 |
| tiate design | 10/1/2018 | 1 | Submit state and federal permit applications | 8/1/2021 | 1 | | | • |
| bmit state and federal permit applications | 8/1/2019 | 1 | Complete land acquisition (if required) | 9/30/2021 | 1 | A-1 FEB (100706) | | |
| omplete design | 7/31/2020 | 1 | Complete design | 7/31/2022 | 1 | Activity | Deadline | |
| itiate construction | 11/30/2020 | 1 | Initiate construction | 11/30/2022 | 1 | Initiate design | 4/1/2012 | 1 |
| onstruction status report | 3/1/2021 | 1 | Construction status report | 3/1/2023 | 1 | Submit state and federal permit applications | 12/1/2012 | 1 |
| onstruction status report | 3/1/2022 | 1 | Construction status report | 3/1/2024 | 1 | Design status report | 3/1/2013 | 1 |
| omplete construction | 12/31/2022 | | Complete construction | 12/31/2024 | | Complete design | 8/1/2013 | ✓ |
| itial flooding and optimization period complete | 12/31/2024 | | | | | Initiate construction COMPLETE | 6/30/2014 | 1 |
| | | | L-8 Divide Structure (100817) | | | Construction status report | 3/1/2015 | 1 |
| STA-1W Expansion #1 (100818) | | | Activity | Deadline | | Construction status report | 3/1/2016 | 1 |
| tivity | Deadline | | | 10/1/2012 | 1 | Complete construction | 7/30/2016 | 1 |
| omplete 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 |
| itiate design | 9/30/2013 | 1 | Initiate construction | 10/1/2016 | 1 | | | |
| Ibmit state and federal permit applications | 7/30/2014 | 1 | Complete construction | 9/30/2018 | 1 | WESTERN FLOW PATH | | |
| | 7/30/2015 | 1 | | , , | | STA-5/6 Internal Improvements (100868 | 8) | |
| tiate construction COMPLETE | 1/31/2016 | 1 | S-5AS Modifications (100822) | | | Activity | Deadline | |
| nstruction status report | 3/1/2017 | 1 | Activity (199922) | Deadline | | Initiate design | 10/31/2019 | 1 |
| Instruction status report | 3/1/2017 | 1 | Initiate design | 10/1/2012 | 1 | Submit state and federal permit applications | 8/30/2020 | 1 |
| omplete construction | 12/31/2018 | 1 | Complete design COMPLETE | 9/30/2014 | 1 | Complete design | 10/31/2021 | 1 |
| itial flooding and optimization period complete | 12/31/2010 | 1 | Initiate construction | 10/1/2014 | 1 | Initiate construction | 1/31/2022 | 1 |
| itial modaling and optimization period complete | 12/31/2020 | | Complete construction | 9/30/2016 | 1 | Construction status report | 3/1/2023 | 1 |
| STA-1E Repairs and Modifications | | | complete construction | 3/30/2010 | | Construction status report | 3/1/2024 | 1 |
| · · · · · · · · · · · · · · · · · · · | Deadline | | S-375 Expansion (100819) | | | Complete construction | 12/31/2024 | / |
| ctivity STA Decommissioning complete | 12/31/2022 | 1 | Activity 3-575 Expansion (100815) | Deadline | | Initial flooding and optimization period complete | 12/31/2024 | ľ |
| ulvert repairs complete | 12/31/2022 | 1 | Initiate decign | 0/20/2012 | 1 | initial flooding and optimization period complete | 12/31/2023 | |
| ell 5 and 7 improvements complete | 12/31/2022 | 1 | Complete design COMPLETE | 7/30/2015 | 1 | STA-5/6 Expansion: Compartment C | | |
| eli 5 and 7 improvements complete | 12/31/2022 | • | Initiate construction | 1/31/2016 | 1 | | Deadline | |
| L 9 FED (100912) | | | | | 1 | Activity COMPLETE | 5/31/2014 | 1 |
| L-8 FEB (100813) | Deadline | | Complete construction | 12/31/2018 | · | Initial flooding and optimization period complete | 5/31/2014 | • |
| ctivity | 1/31/2014 | 1 | | | | C-139 FEB (100867) | | |
| ubmit state and federal permit applications | | Y | LEGEND | | | · · · · · · · · · · · · · · · · · · · | Baradii a | |
| onstruction status report COMPLETE | 3/1/2014 | * / | Flow Equalization Basin | | | Activity | Deadline | , |
| enstruction status report | 3/1/2015 | 1 | Stormwater Treatment Area | 1 | | Initiate design | 10/31/2018 | ' |
| emplete construction (begin multi-purpose ops) | 12/31/2016 12/31/2022 | 1 | Conveyance Improvement | | | Submit state and federal permit applications | 8/30/2019 | ' |
| ng term operations commence | 12/31/2022 | | ✓ Complete | | | Complete design | 10/31/2020 1/31/2021 | Y |
| | uninata Camanists | 0-1 | • | | | Initiate construction | | Y |
| | ojects Complete = | | | | | Construction status report | 3/1/2021 | , |
| | tivities Complete = | | 74 | | | Construction status report | 3/1/2022 3/1/2023 | Y |
| | tivities Complete = | | | | | Construction status report | | ľ |
| " | 6 Time Complete = | 80 % | | | | Complete construction | 12/31/2023 | |
| | | | | | | Operational monitoring and testing period complete | 12/31/2024 | |

Revised April 20, 2023