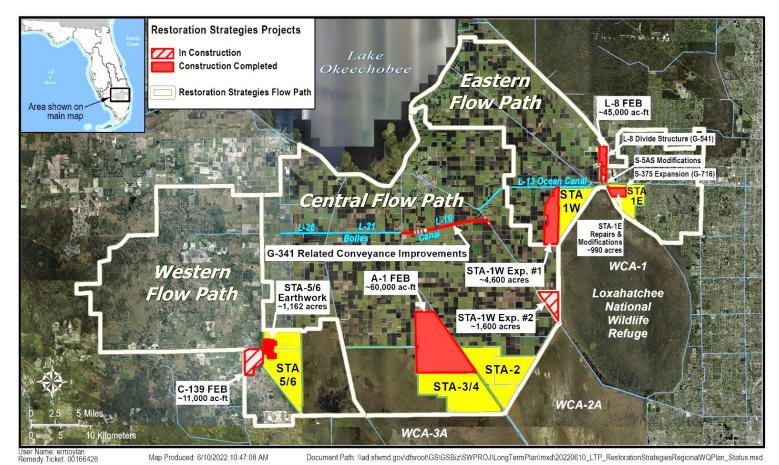
The South Florida Water Management District's (District) \$880 million Restoration Strategies Program is improving water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects 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.



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 raise a 530-acre low-lying area in northwest Cell 2 to design elevation and repair of 15 canal plugs are complete. Seeking GB contract approval for fill to repair 49 canal plugs in Cell 3 and remaining 22 canal plugs in Cell 2.

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. Modified EFA Permit and Section 404 Permit for southeastern boundary expansion area were received in December 2022. Construction activities in the expansion area are in progress. 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. Design of G-775 interim pump station is ongoing. 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 | Jun2023 | | | | | |
| 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 | | | | | |

PICTURE OF THE MONTH



P Flux Study soil sampling in STA-5/6.

www.sfwmd.gov/restorationstrategies

| | EASTER | N FLC | W PATH | | | CENTRAL FLOW PATH | | |
|---|----------------|----------|--|------------|--------|--|------------|--------|
| STA-1W Expansion #2 (100864) G-341 Related Conveyance Improvements (100802) | | | 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 | 1 |
| nitiate design | 10/1/2018 | ✓ | Submit state and federal permit applications | 8/1/2021 | 1 | | | |
| ubmit state and federal permit applications | 8/1/2019 | ✓ | 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 | 1 |
| nitial 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 |
| Activity | Deadline | | | 10/1/2012 | 1 | Complete construction | 7/30/2016 | 1 |
| Complete land acquisition | 9/30/2013 | 1 | Initiate design COMPLETE | 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 | | .,,_010 | |
| Submit state and federal permit applications | 7/30/2014 | 1 | Complete construction | 9/30/2018 | 1 | WESTERN FLOW PATH | | |
| | 7/30/2014 | | Complete construction 5/50/2018 | | | STA-5/6 Internal Improvements (100868 | 1 | |
| | | · · | C FAC Ma differentiama (100022) | | | | • | |
| | 1/31/2016 | ¥ • | S-5AS Modifications (100822) | | | Activity | Deadline | 1 |
| Construction status report | 3/1/2017 | ¥. | Activity | Deadline | , | Initiate design | 10/31/2019 | 4 |
| Construction status report | 3/1/2018 | v v | Complete design | 10/1/2012 | √ √ | Submit state and federal permit applications | 8/30/2020 | ۷, |
| Complete construction | 12/31/2018 | | | 9/30/2014 | | Complete design | 10/31/2021 | * |
| nitial flooding and optimization period complete | 12/31/2020 | ✓ | Initiate construction | 10/1/2014 | √ √ | Initiate construction | 1/31/2022 | * |
| | | | Complete construction | 9/30/2016 | v | Construction status report | 3/1/2023 | ¥ √ |
| STA-1E Repairs and Modifications | | | | | | Construction status report | 3/1/2024 | ۷, |
| Activity COMPLETE | Deadline | | S-375 Expansion (100819) | | | Complete construction | 12/31/2024 | ~ |
| PSTA Decommissioning complete | 12/31/2022 | 1 | Activity | Deadline | | Initial flooding and optimization period complete | 12/31/2025 | |
| Culvert repairs complete | 12/31/2022 | 1 | Initiate design Complete design | 9/30/2013 | 1 | | | |
| Cell 5 and 7 improvements complete | 12/31/2022 | ✓ | | 7/30/2015 | 1 | STA-5/6 Expansion: Compartment C | | |
| | | | Initiate construction | 1/31/2016 | 1 | Activity CONPLETE | Deadline | |
| L-8 FEB (100813) | | | Complete construction | 12/31/2018 | ✓ | Initial flooding and optimization period complete | 5/31/2014 | < |
| Activity | Deadline | | | | | | | |
| Submit state and federal permit applications | 1/31/2014 | ✓ | LEGEND | | | C-139 FEB (100867) | | |
| Construction status report COMPLETE | 3/1/2014 | √ | Flow Equalization Basin | | | Activity | Deadline | |
| Construction status report | 3/1/2015 | ✓ | Stormwater Treatment Area | | | Initiate design | 10/31/2018 | 1 |
| Complete construction (begin multi-purpose ops) | 12/31/2016 | ✓ | | | | Submit state and federal permit applications | 8/30/2019 | ✓ |
| ong term operations commence | 12/31/2022 | ✓. | Conveyance Improvement | | | Complete design | 10/31/2020 | 1 |
| | | | ✓ Complete | | | Initiate construction | 1/31/2021 | 1 |
| Pro | jects Complete | = 9 of | 13 | | | Construction status report | 3/1/2021 | 1 |
| Activities Complete = 66 of 74 | | | Construction status report | 3/1/2022 | 1 | | | |
| % Activities Complete = 89 % | | | Construction status report | 3/1/2023 | | | | |
| % | Time Complete | = 77 % | | | | Complete construction | 12/31/2023 | |
| | | | | | | Operational monitoring and testing period complete | 12/31/2024 | |

Revised December 27, 2022