The South Florida Water Management District’s $880 million Restoration Strategies Program includes the design and construction of a suite of regional water storage, treatment and conveyance improvement projects that will further improve water quality in America’s Everglades. The program also includes a robust Science Plan consisting of research activities focused on investigating the critical factors that influence phosphorus (P) reduction and better understanding the sustainability of P removal performance at low P concentrations. The strategies also feature implementation of additional sub-regional source controls – where pollution is reduced at the source – in areas where P levels in stormwater runoff have been historically higher. Through March 2018, total program expenditures are approximately $288 million and all projects are scheduled to be complete by December 2025.

### Eastern Flowpath

**L-8 Flow Equalization Basin (FEB)**
- Operations ongoing

**Stormwater Treatment Area 1 West (STA-1W) Expansion #1**
- Construction is 76 percent complete; Completion expected December 2018

**Stormwater Treatment Area 1 West (STA-1W) Expansion #2**
- 1,327 acres of land (known as the Snail Farm) was acquired from USFWS on January 31, 2018; Design activities will begin by October 2018

**G-341 Related Conveyance Improvements**
- Bolles East Canal Segment 3 (~3.2 miles) construction is 50 percent complete and expected to be complete by February 2019; Design of Segment 4 is ongoing and construction is expected to start by February 2019;
- Discussions with owners of the remaining Bolles East Canal bridges have been productive and have resulted in preliminary agreements regarding their replacement

### Central Flowpath

**A-1 Flow Equalization Basin (FEB)**
- Operational Testing and Monitoring Phase (OTMP) is ongoing and will be complete by July 2018

### Western Flowpath

Design activities will begin by October 2018

### Additional Components

**Stormwater Treatment Area (STA) Science Plan**
- Of the nine initial studies, three have been completed, others are nearing completion and two new studies have been initiated; Preliminary planning for the 2nd Five Year Work Plan (FY2019-2023) is ongoing; Preliminary results to date are as follows:
  - STA soil amendments could potentially reduce P, however costs are high and impacts to downstream systems are uncertain
  - Periphyton-based STA performance appears resilient despite higher flow pulses and extended periods of high flow
  - STA canals do not appear to significantly affect inflow or outflow P concentrations
  - Increases in P were detected in STA outflow regions, however the source of increase continues to be studied
  - Deficiencies and biases were determined for existing P sampling methods; other validation activities will continue

**Sub-Regional Source Controls**
- The development of sub-regional source control concepts began and coordination with stakeholders was initiated

**Mecca Impoundment**
- Currently being evaluated as part of CERP’s Loxahatchee River Watershed Restoration Project

[www.sfwmd.gov/restorationstrategies]
## Restoration Strategies Program Update

### April 2018

**Consent Order**¹ Milestones
(with deadlines or completion dates ranging from May 2017 through April 2019)

<table>
<thead>
<tr>
<th>Project: Activity</th>
<th>Deadline</th>
<th>Date Completed</th>
<th>Days +/- ²</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eastern Flowpath</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-8 FEB: Complete Construction</td>
<td>12/31/2016</td>
<td>6/21/2017</td>
<td>-172</td>
</tr>
<tr>
<td>STA-1W Expansion #1: Complete Construction</td>
<td>12/31/2018</td>
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<tr>
<td>STA-1W Expansion #2: Complete Land Acquisition</td>
<td>3/31/2018</td>
<td>1/31/2018</td>
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<tr>
<td>STA-1W Expansion #2: Initiate Design</td>
<td>10/1/2018</td>
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<td></td>
</tr>
<tr>
<td>L-8 Divide Structure: Complete Construction</td>
<td>9/30/2018</td>
<td>7/7/2016</td>
<td>+815</td>
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<td><strong>Central Flowpath</strong></td>
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<tr>
<td>A-1 FEB: Operational Monitoring and Testing Period Complete</td>
<td>7/29/2018</td>
<td></td>
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<tr>
<td><strong>Western Flowpath</strong></td>
<td></td>
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<tr>
<td>C-139 FEB: Initiate Design</td>
<td>10/31/2018</td>
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</tbody>
</table>

1: FDEP Consent Order 12-1148 (associated with National Pollutant Discharge Elimination System Permit No. FL0778451-001-FL7A/RA) and FDEP Consent Order 12-1149 (associated with Everglades Forever Act Permit No. 0311207)

2: + = days ahead; - = days behind

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### Photo of the Month

STA Science Plan Phosphorus Flux Chambers in STA-2 Cell 3 - January 2017

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