SFWMD Program and Project Update

South Florida Ecosystem Restoration Task Force Meeting
October 22, 2020

Megan Jacoby, Principal Federal Policy Analyst
Ecosystem Restoration & Capital Projects
C-44 Reservoir & STA

- **SFWMD Projects:**
  - S-404 Spillway - complete
  - Pump Station – complete
  - STA – construction schedule
    - Cells 1-5 complete
    - Cell 6 in 2020

- **USACE Project:**
  - Reservoir – construction ongoing

Presenter – Megan Jacoby
C-44 STA

Distribution Canal looking West

Cell 4 grading

Hydration Station

Cell 4 looking North

Cell 2 looking North

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State began construction in 2015

- Package 1: Preload and Demolition – Complete
- Package 2: Construction of S-476 (195 cfs) Pump Station - Complete
- Package 3: S-470 (1500 cfs) Pump Station completion - Spring 2022
- Package 4: Civil works completion – 2023
C-43 Reservoir Construction

Presenter – Megan Jacoby
Old Tamiami Trail Removal
- Under construction
- Expected completion January 2022
- Powerline removal complete

S-333N
- Under construction
- Expected completion December 2020

PPA executed
July 27, 2020
Pre-Partnership Credit Agreement executed May 2020

Site Activity:
- Canal Conveyance Improvements
  - Expedited site investigations of Miami and North New River Canal Conveyance
  - Preliminary design report for channel improvements expected March 2021
- Initiated Inflow/Outflow Canal site preparation April 2020 and canal excavation July 2020

- Coordinating with FPL for project power
- Coordinating with USACE on Reservoir Pump Station design
Everglades Agricultural Area STA

- Stormwater Treatment Area
  - Blasting and excavation of Inflow/Outflow initiated August 2020
  - STA final design received
  - STA cell construction expected early 2021

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Biscayne Bay Coastal Wetlands

- Deering Estate – complete
- L-31E:
  - L-31E culverts – complete
  - Design of S-709 – complete
  - Design of remaining features - underway
- Cutler Wetlands design update – underway
  - Survey, geotech and modeling
- Biscayne Bay and Southeastern Everglades Restoration (BBSEER)
  - Project Management Plan- complete
  - Study initiated July 2020

Presenter – Megan Jacoby
STATE PROGRAMS
Stormwater Treatment Areas (STAs)

Permitted STA Area
1994: 4,000 acres
1999: 9,000 acres
2000: 18,000 acres
2003: 35,000 acres
2004: 40,000 acres
2006: 45,000 acres
2012: 57,000 acres

Presenter – Megan Jacoby
All STAs Performance Comparison by Water Year (WY)

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<thead>
<tr>
<th></th>
<th>WY2016</th>
<th>WY2017</th>
<th>WY2018</th>
<th>WY2019</th>
<th>WY2020</th>
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<tbody>
<tr>
<td>Total Inflow (K acre-feet)</td>
<td>1,329</td>
<td>1,090</td>
<td>1,616</td>
<td>1,438</td>
<td>1,006</td>
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<td>Lake Releases (K acre-feet)</td>
<td>291</td>
<td>249</td>
<td>160</td>
<td>470</td>
<td>153</td>
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- Phosphorus reduction throughout all STAs is ~80%
- Quantity and timing of water delivery can impact STA performance
Restoration Strategies: Key Projects

Presenter – Megan Jacoby
RS - Eastern Flowpath

- Construction complete
  - L-8 FEB construction
  - STA-1W Expansion #1 construction
- 4 projects underway
  - STA-1E Repair and Modification – Under construction, complete by October 2022
  - STA-1W Expansion #1 – Optimization complete by November 2020
  - STA-1W Expansion #2 – Design complete and construction initiated
  - G-341 Related Conveyance Improvements – Sections 1, 2, & 3 complete, Section 4 under construction, Section 5 in design

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A-1 FEB Complete
RS - Western Flow Path

- 2 projects underway
  - STA 5/6 Improvements
    - Construction completed in May 2020
    - Initial flooding and optimization period by December 2025
  - C-139 FEB
    - Final Design complete, Initiate construction by January 2021