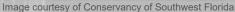
STUDIES UNDER DEVELOPMENT FOR WRDA 2024 CONSIDERATION

SFER TASK FORCE

Presented by:

Angie Dunn, Chief Planning Division, Jacksonville District, US Army Corps of Engineers, Jennifer Leeds, Bureau Chief, Ecosystem Restoration Planning, South Florida Water Management District 25 April 2024

















SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM Studies for WRDA 24

- Western Everglades Restoration Project (WERP)
- Lake Okeechobee Watershed Restoration Project (LOWRP)
- Lake Okeechobee Component A (LOCAR)



SOUTH FLORIDA ECOSYSTEM RESTORATION

WESTERN EVERGLADES RESTORATION PROJECT (WERP)







WERP STUDY OBJECTIVES:

- Restore freshwater flow paths, flow volumes and timing, seasonal hydroperiods, and historic distributions of sheetflow to reestablish ecological connectivity and ecological resilience of the historic wetland/upland mosaic
- Restore water levels to reduce wildfires associated with altered hydrology, which damage the underlying geomorphology and associated ecological conditions of the western Everglades
- Restore aquatic low nutrient (oligotrophic) conditions to reestablish and sustain native flora and fauna

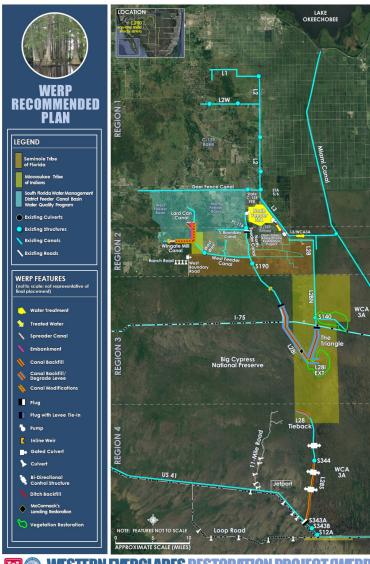
STATUS: Targeting WRDA24

- 17 Apr 24 held project update public meeting
- Final Planning Implementation Report (PIR) and Environmental Impact Statement (EIS) in policy reviews
- Complete Final Report June 2024
- State and Agency Review Aug 2024
- Chief's Report signed September 2024
- Project Authorization Target WRDA 2024



RECOMMENDED PLAN

- The recommended plan is Alternative Hybrid Natural Flow Revised (HNFR.)
- Benefits:
 - ✓ Reduces over inundation of the panther conservation bank and west lands near the Wingate Mill Canal concerns.
 - ✓ Reroutes the North Feeder Basin water into the Northwestern corner of Water Conservation Areas 3A while restoring aquatic low nutrient condition.
 - ✓ Re-establishes some sheetflow and ecological connectivity within the Triangle area, which is very important for the Tribes.
 - Restores a level of freshwater flow paths that could reestablish some ecological connectivity between Water Conservation Area 3A and Big Cypress National Park area.



WESTERN EVERGLADES

ADDITIENSING ENERGY DESTAUDATION DIAN ODGISCO LEGA ADDITIONAL INCODMATION - MAINN SALIISACE ADMY MIL /INCOD.

April 20



WHAT WE HEARD AND RESULTING CHANGES TO FINAL PIR/EIS





WHAT WE HEARD:

- Removal of west feeder STA
- Impacts to wildlife, mitigation
- Impacts to hunting, fishing and public access
- Water levels on private property, concerns on modeling assumptions, hydrologic effect
- Flexibility on operations for drainage variability where needed
- Consideration of Indigenous Knowledge (IK) in operations and restoration of flows in native areas
- Avoid cultural resources impacts
- Non-WERP nutrient source control efforts, water quality, state's best management plan (BMP) and monitoring

CHANGES TO FINAL PIR/EIS:

- No STA, more natural flows in west feeder basin
- Optimized design to reduce/eliminate impacts
- Updated the Integrated Implementation Plan
- Improved the Level of Engineering Design/Cost Estimate
- Obtained additional topographic survey information
- Obtained geotechnical borings and structure locations
- Evaluated Operations at the West Boundary Road Culvert entering SBCR
- Received 1501 Report form the Florida Department of Environmental Protection
- Received Final Biological Opinion from USFWS April 24
- Improved WQ Monitoring Plan w/Support from DOI
- SFWMD's Feeder Basin Water Quality Program



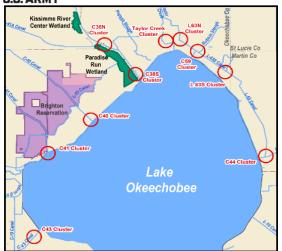
SOUTH FLORIDA ECOSYSTEM RESTORATION

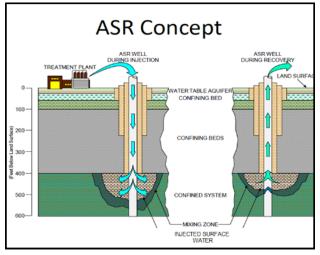
LAKE OKEECHOBEE WATERSHED RESTORATION (LOWRP) PROJECT











COMPONENTS:

Aquifer Storage and Recovery (ASR) Wells



- Restore hydrology of isolated, riverine wetlands
- Paradise Run: ~ 4,700 acres
- Kissimmee River Center: ~ 1,200 acres
- Recreational facilities





STATUS:

- First Report: Final LOWRP Wetlands Restoration Planning Implementation Report (PIR) and Environmental Impact Statement (EIS) in policy reviews and targeting WRDA 2024
- Second Report: LOWRP ASR Pending additional science from USACE Engineering and Research Development Center (ERDC)



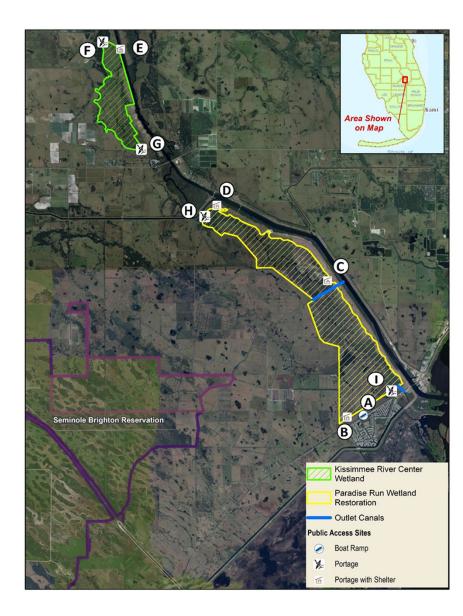
RECOMMENDED PLAN

U.S. ARM

 The recommended plan is Alternative Aquifer Storage & Recovery (ASR) and is the wetland restoration features of the project.

Benefits:

- ✓ Improve the quantity, timing, and distribution of water entering Lake Okeechobee, thus providing opportunities for better management of lake water levels for ecological and water supply purposes.
- Reduce the frequency and duration of high-volume regulatory lake flows to the Caloosahatchee and St. Lucie estuaries and improves system-wide operational flexibility.
- ✓ Restore portions of the historic Kissimmee River channel and floodplain.
- Recreational features will enhance the existing opportunities for resource-based recreation in the Lake Okeechobee watershed.





Section 203 North of Lake Okeechobee Storage Reservoir (LOCAR) Final Feasibility Report and Environmental Impact Statement





South Florida Water Management District initiated planning of the *North of Lake Okeechobee Storage Reservoir Section 203 Study* in March 2023

 Also known as the Lake Okeechobee Component A Storage Reservoir (LOCAR)

Study Objectives

- Component A of CERP: a storage reservoir north of Lake Okeechobee with ~200,000 ac-ft of storage.
- Store excess water during wet periods.
- Reduce high and low water level events in Lake Okeechobee.
- Reduce large discharges to the downstream estuaries.
- Keep more water in the system for environmental and water supply uses.

WRDA 2024 Status

 Transmitted to the Assistant Secretary of the Army (ASA) for review on February 28, 2024



