Sam Jones – Abiaki Prairie
C-139 Annex Restoration
August 25, 2017
CONSTRUCTION: PHASE 1
Phase 1: Site Leveling Substantially Complete
Phase 1: Hydrologic Restoration
Phase 1 Original Site Conditions: Orange Groves
Remove Citrus Groves and Treat Exotics
Remove Drainage Pipes and Irrigation
Post Leveling Projections: Wetland Surface Water Flow and Depressions

C-139 Annex Restoration, Phase 1 Topography

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September 2016
2017: Remnant Wetland Boundaries Expand and Historic Sloughs Reappear

June 2017: Looking west after significant rain event
Historic Aerial/Projected Topo/Recent Aerial
Phase 1: Wetland Revegetation
Natural Recruitment from Remnant Wetlands - Ongoing
2017 Maidencane Rhizome Planting:
6 Cells Planted (approximately 720 acres)
2016 Stem Planting Test Plot: Groundcover Establishing (20 acres)
2016 Direct Seeding Test Plot (3.5 acres)
2017-2018: Conventional Plantings
2017-2018: Non-Conventional Plantings

*Encyclia tampensis*
Photo and © by Roger Hammer
Wildflowers of the Everglades

*Bletia purpurea*
Photo and © by Roger Hammer
Wildflowers of the Everglades

*Cyrtopodium punctatum*
Photo by Keith Bradley
2017-2018: Trial Revegetation Techniques
2017-2018: Trial Revegetation Techniques
2017-2018: Trial Revegetation Techniques
Phase 1: Wildlife Utilization
Wildlife Utilization: Animal Tracks
Wildlife Utilization: Miscellaneous Insects, etc.
Wildlife Utilization: Reptiles/Amphibians
Wildlife Utilization: Avian
Wildlife Utilization: Avian
Wildlife Utilization: Mammals
Wildlife Utilization: Mammals
Wildlife Utilization: Mammals
FUTURE CONSTRUCTION: PHASE 1
1. Site within SFWMD Control
2. Removal of citrus trees (clearing, pile, burn, smooth)
3. Removal of citrus irrigation (tubing, wells, pumps, housing, piping, tanks)
4. Mow vegetation in ditches prior to 1st exotic treatment
5. 1st exotic treatment of cleared citrus grove areas
6. Prescribed burn of cleared citrus grove areas
7. 2nd – 8th exotic treatment sweep of cleared citrus grove
8. Prior to site grading, verify exotic eradication success - additional time/treatments needed?
9. Exotic treatment/removal in remnant wetland areas (mechanical and hand removal)
10. Level grove blocks
    Soil monitoring and stabilization
11. Identify groundcover donor site
12. Herbicide and fertilize groundcover donor site
13. Identify groundcover areas available for harvest
14. Identify max area of groundcover restoration planting; does the identified donor site produce enough material?
15. 1st groundcover harvest
16. 1st groundcover planting
17. Rest period: groundcover donor site recovery and regrowth
18. Fill lateral canals and excavate deep refugia areas
19. Construct/retrofit perimeter site controls (roads, levees, berms, canals)
20. Construct/retrofit water control structures
21. Construct/retrofit internal roadway network
22. Construct seepage pump
23. Plant aquatic vegetation in wetlands as appropriate
24. Collect seed for wetland diversity
25. Direct seed for wetland diversity
27. Implement adaptive management
28. Repeat
Lateral Canal 15E –
To Be Fully Backfilled Starting Fall 2017

Phase 1 Proposed Construction Activities:
- Canal backfilling already authorized by SAJ-2014-0717
- Remove existing water control structures
- Excavate two deep water refugia areas to generate fill material
- Backfill Lateral Canal 15E to natural grade
Other Onsite Resources
Potential Structural Habitat?
Future Project Boundaries: Phase 2 - Updated
Revised: Project Boundaries in Phase 2

Phase 1 (Green)  
= ~3290 ac

Phase 2 (Purple)  
= ~6233 ac

Outside current restoration (Yellow)  
= ~5532 ac

Total Site Area  
= ~15,055 ac