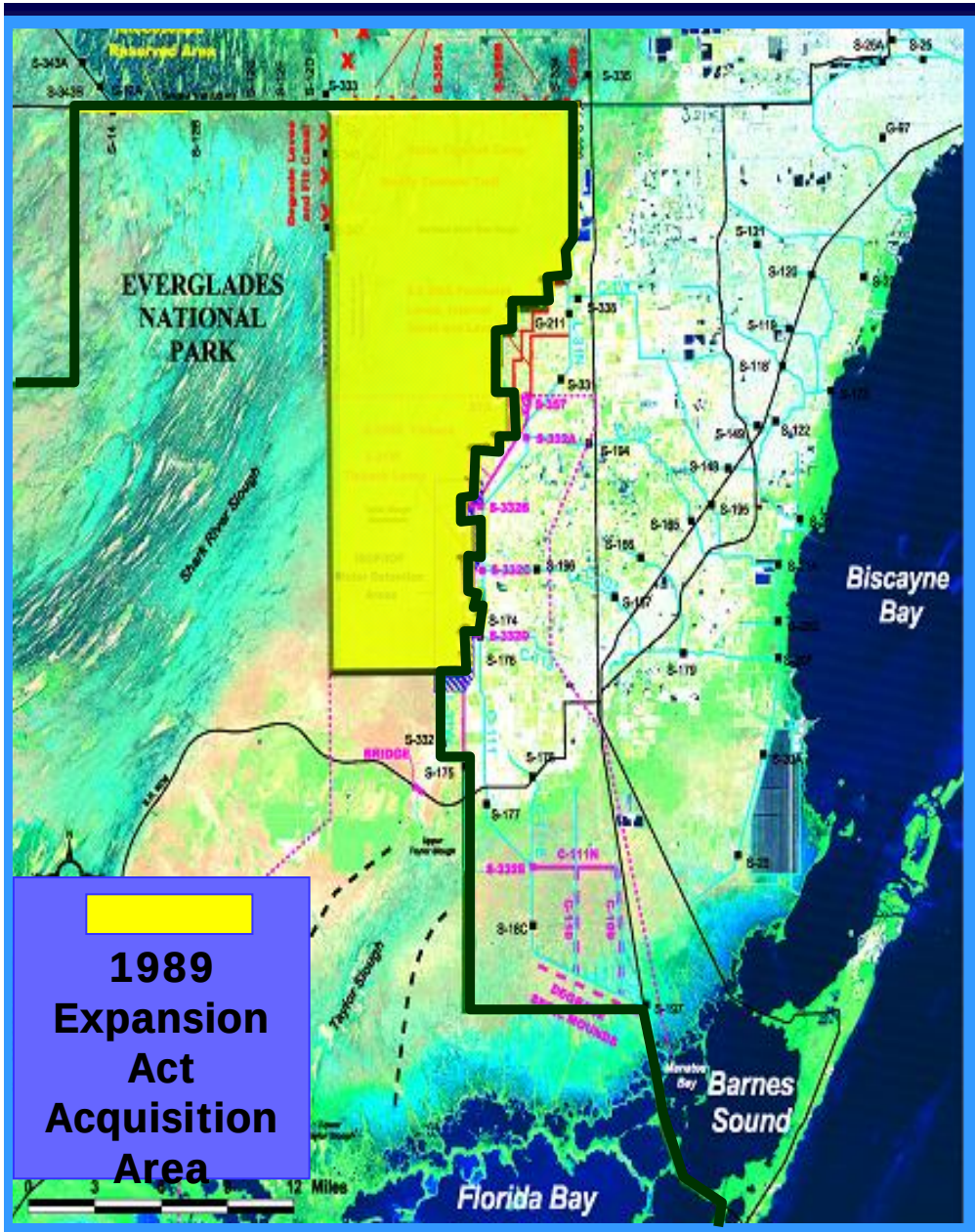
Jacksonville District

U.S. Army Corps of Engineers

Water Control Plan for Pump Station S-357

Presentation Overview

- Welcome and Introduction: Kim Taplin
- Meeting Purpose: Provide information on the preliminary draft Water Control Plan for Pump Station S-357 and an opportunity for public input
- Modified Water Deliveries Overview and Status
  Brice McKoy, Corps Project Manager
- Presentation on the Draft Water Control Plan
  Trent Ferguson, Water Management Section
- Questions and clarification on the Draft Plan
- Comment Period

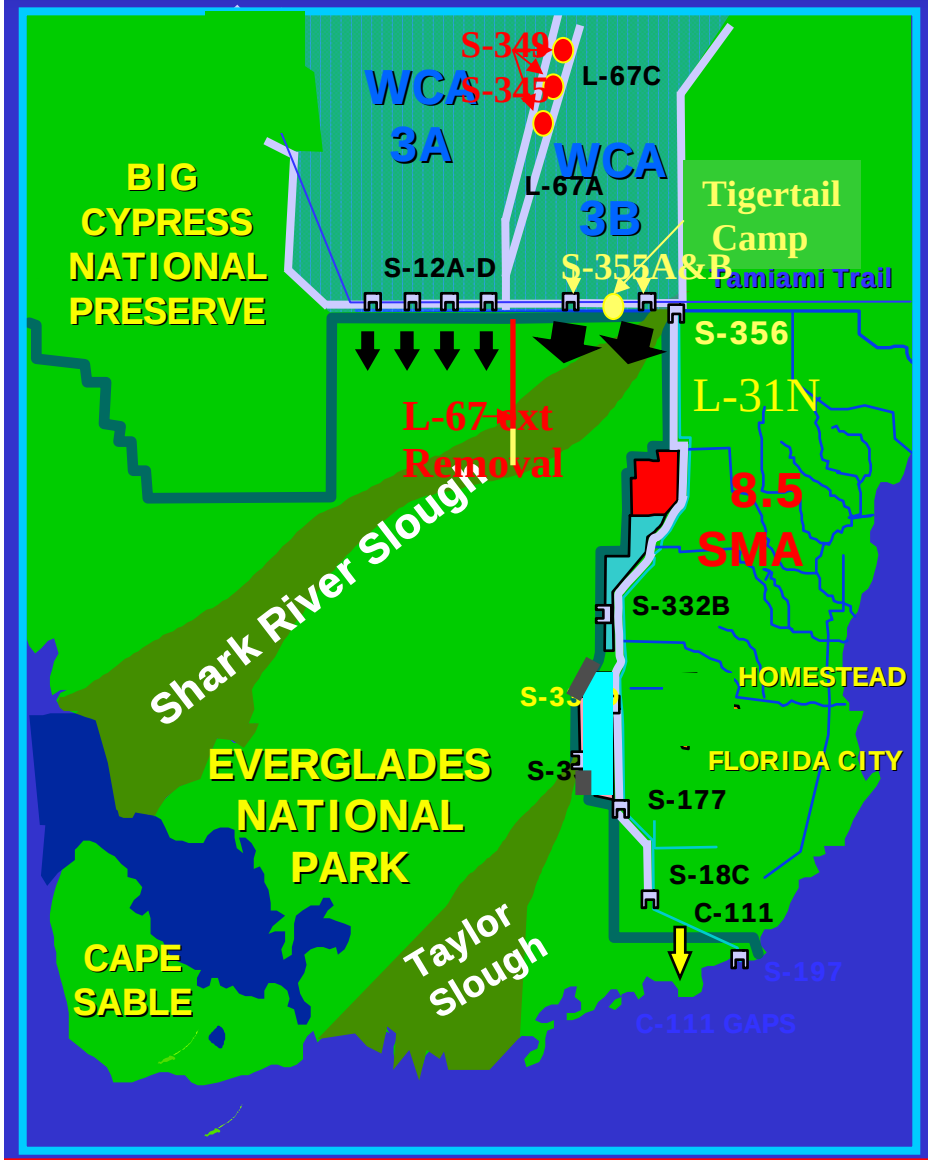


Modified Water Deliveries Authorization

The Everglades National Park Protection and Expansion Act of 1989....

- **Authorized the acquisition of 109,000 acres**
- **Authorized modifications "to improve water deliveries into the park and shall, to the extent practicable, take steps to restore the natural hydrologic conditions in the Park"**

Modified Water Deliveries Project



Conveyance Features

- **S-355A & S-355B (L-29):** Complete
- **S-333 Mods:** Complete
- **L-67 Extension:** 4 of 9 miles complete
- **Tamiami Trail:** LRR underway
- **L-67A: S-349s & S-345s:** EDR
- **L-67C: Gaps:** EDR
- **L-29: Weirs:** EDR

Seepage Features

- **S-356 (L-31N):** Complete

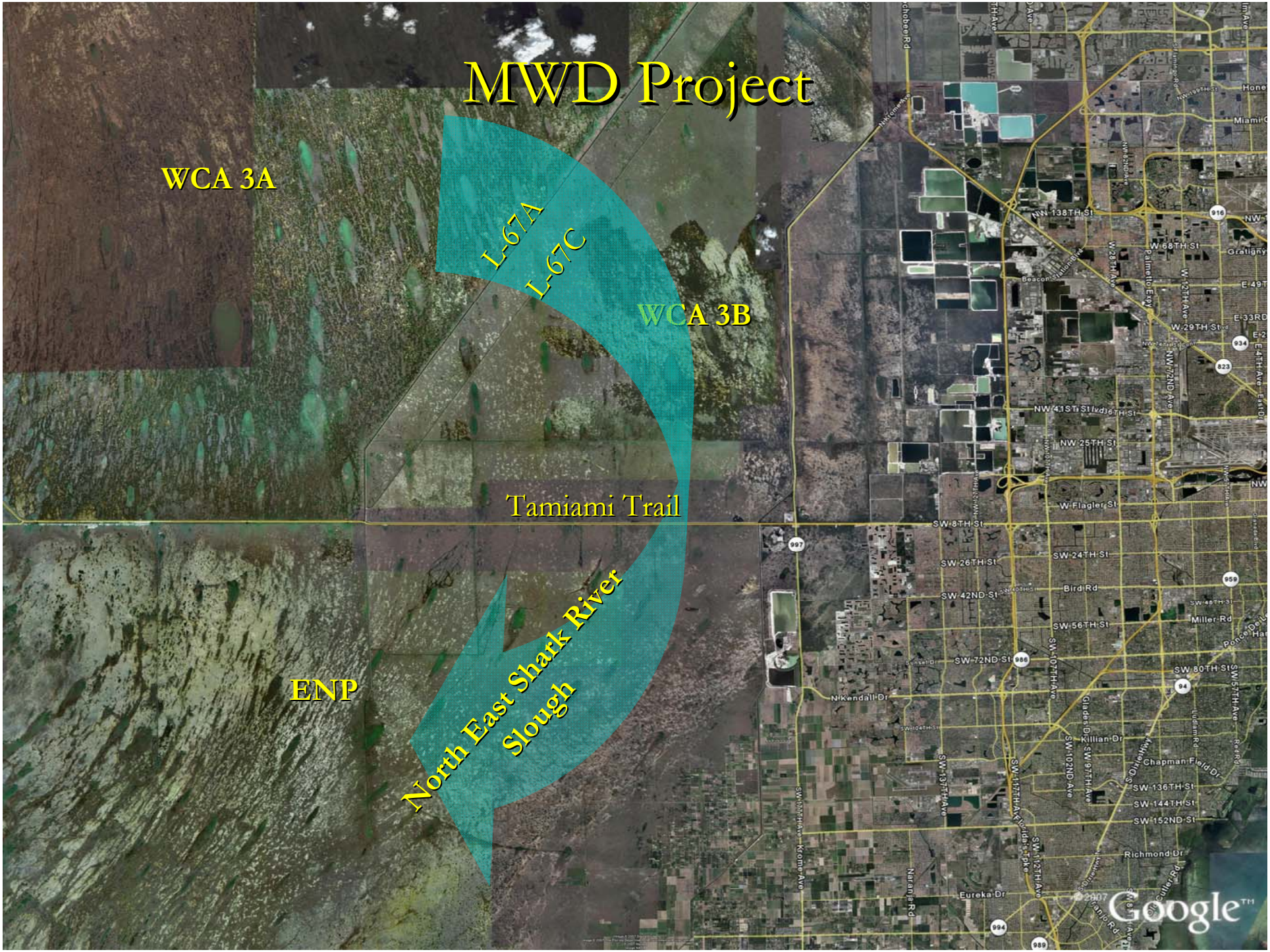
Mitigation Features

- **8.5 Square Mile Area:** Final Stages
- **Tigertail Camp:** Complete
- **Osceola Camp:** DOI Negotiations

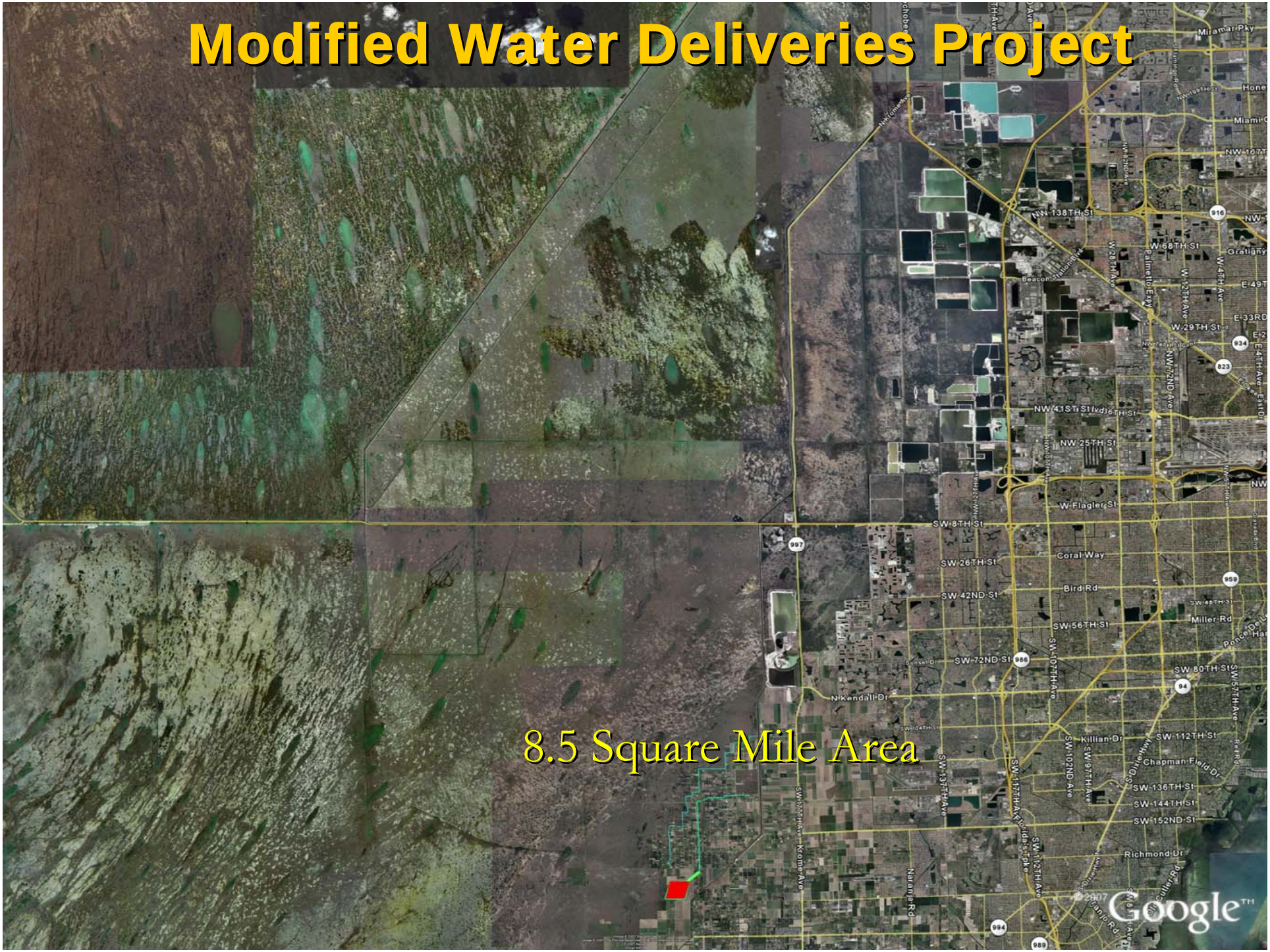
Other Project Activities

- **CSOP:** On Hold

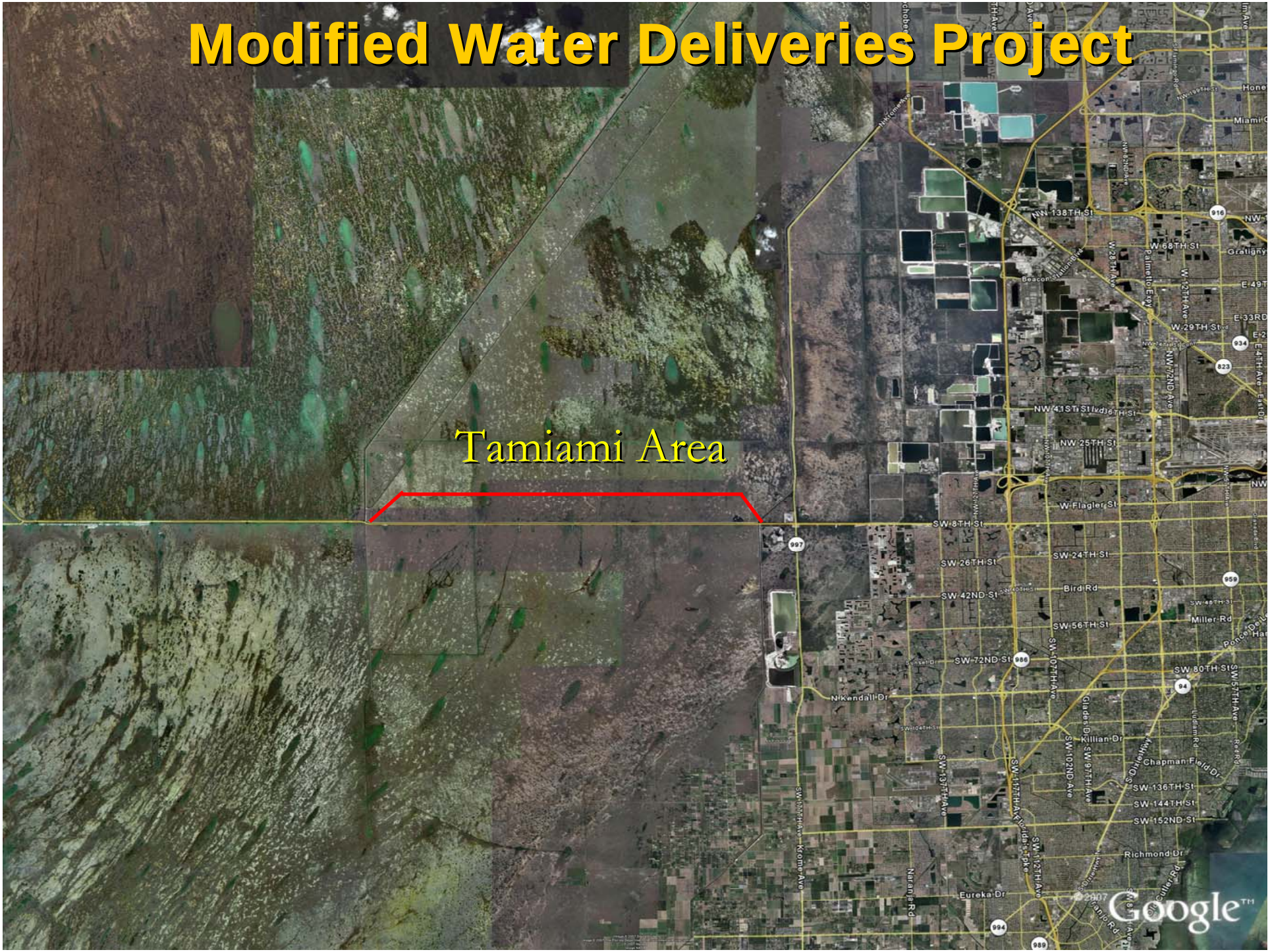
U.S. Army Corps of Engineers **Jacksonville District**


MWD Project
WCA 3A
L-67A
L-67C
WCA 3B
Tamiami Trail
North East Shark River Slough
ENP
NW 138TH St
W 68TH St
W 29TH St
NW 41ST St
NW 25TH St
W Flagler St
SW 8TH St
SW 26TH St
SW 24TH St
SW 42ND St
Bird Rd
SW 56TH St
Miller Rd
SW 72ND St
SW 80TH St
N Kendall Dr
Killian Dr
Chapman Field Dr
SW 136TH St
SW 144TH St
SW 152ND St
Richmond Dr
Eureka Dr
Krome Ave
Naranja Rd
Google

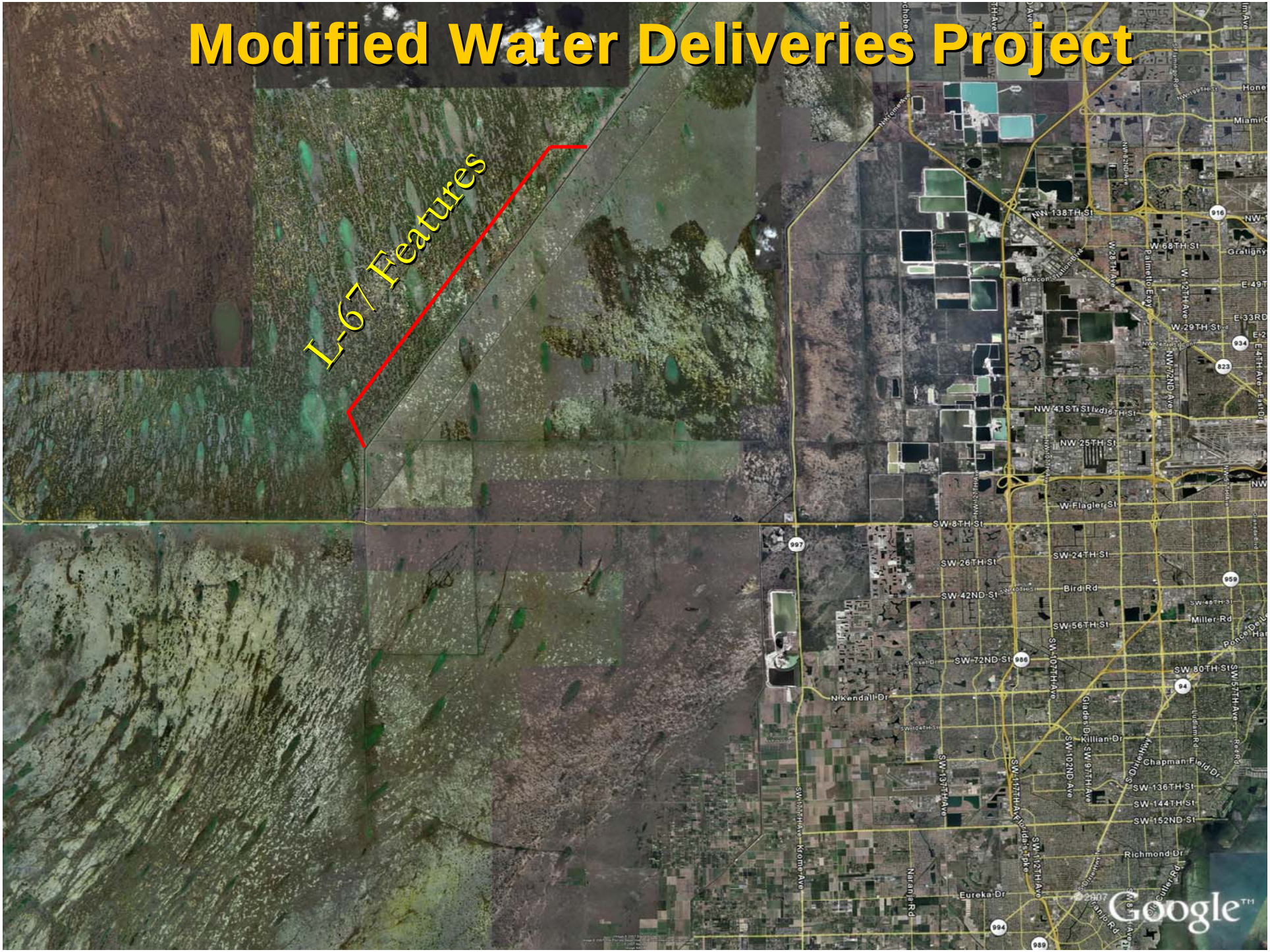
Modified Water Deliveries Project

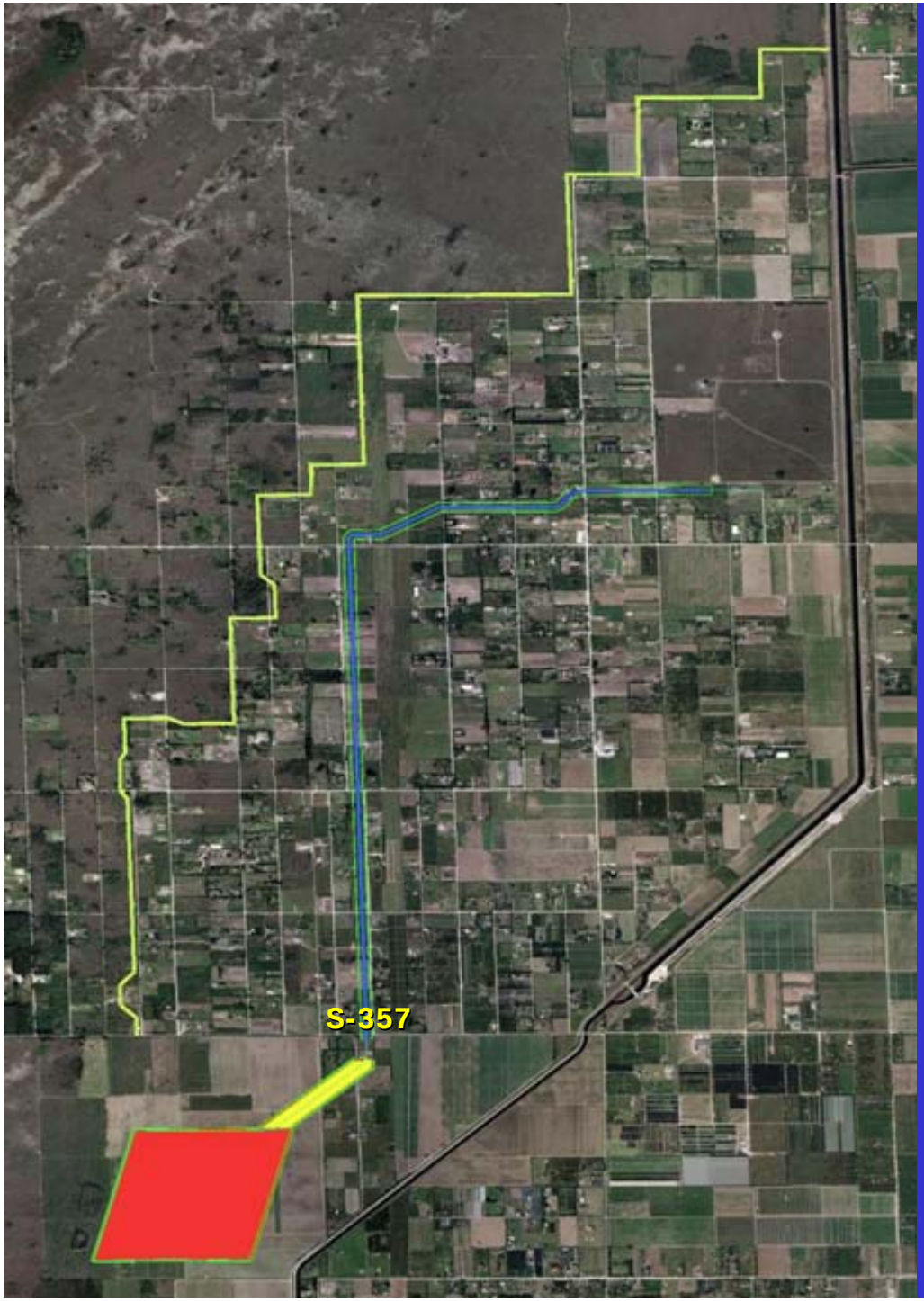


Modified Water Deliveries Project



Modified Water Deliveries Project



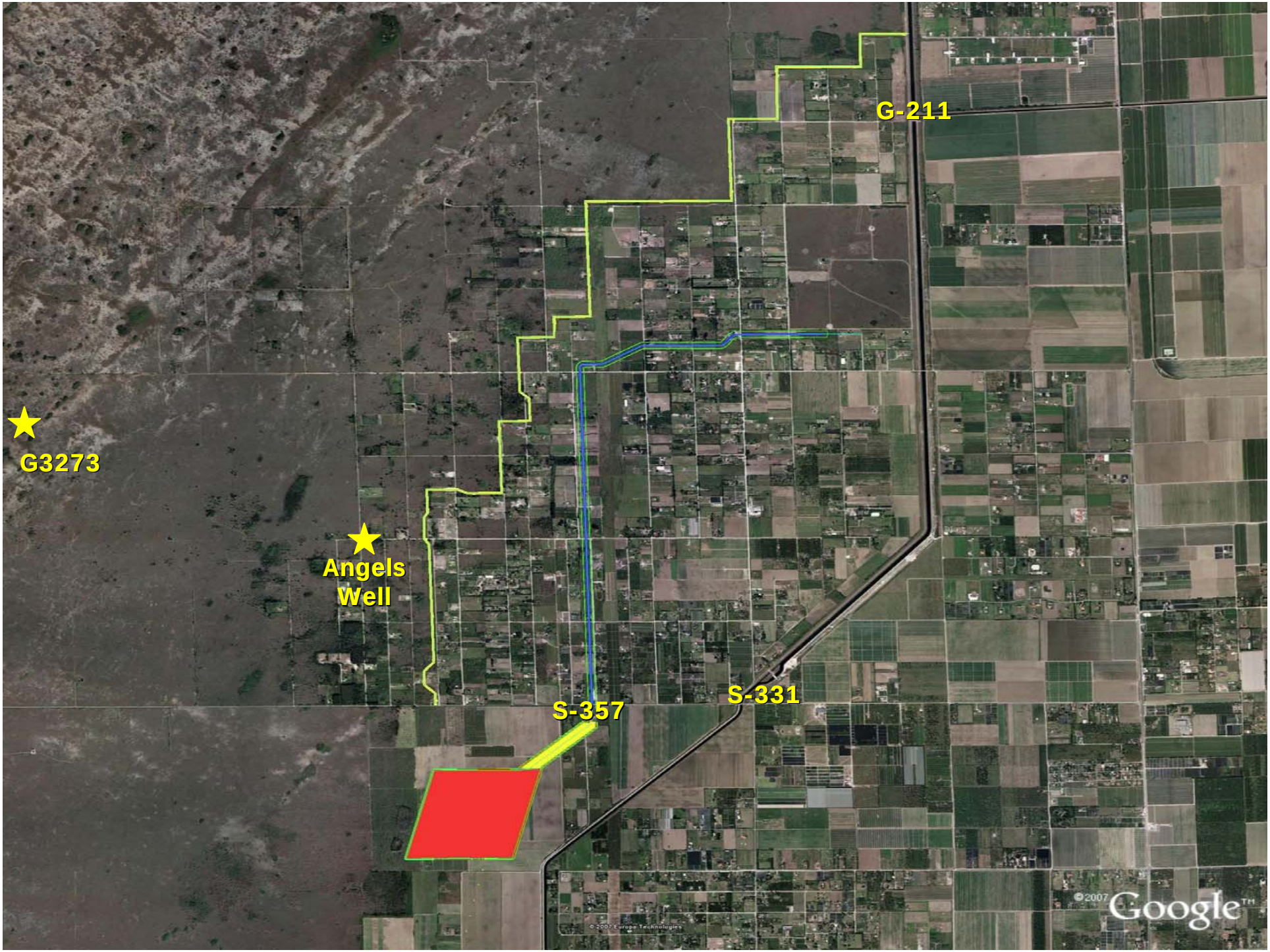


8.5 Square Mile Area Construction

- Perimeter Levee (6.93 miles)
- Seepage Canal (3.78 miles)
- S- 357 Pump Station (575 cfs)
- Flow way (20 acres)
- Stormwater Treatment Area (183 acres)
- West of Levee Cleanup
- Testing 2nd week in Feb. 08
- Project to be completed May 08
- Project Transfer to SFWMD and some lands to ENP

What is a Water Control Plan?

- Contains regulation schedules and other operating criteria
- Revised as necessary for authorized changes (e.g. feature changes and area regional conditions)
- Must blend varied, often competing project purposes
- Compromise is a basic factor
- Water Control Plan – Jacksonville District writes
- South Atlantic Division approves
- Anticipated approval - April 2008 or later


G-211
G3273
Angels
Well
S-357
S-331
©2007
Google™

Current operations guided by the Interim Operation Plan (IOP)

for protection of the Cape Sable Seaside Sparrow, dated Dec 2006

Regulation Schedule	No WCA-3A Regulatory Releases to SDCS or Shark River Slough	WCA-3A Regulatory Releases to SDCS
S-331	Angel's Criteria – If Angel's well is <5.5 feet, then no limit on S-331 hw level If Angel's well is 5.5-6.0 feet, S-331 avg. daily is between 5.0 – 4.5 If Angel's well is above 6.0 feet, S-331 avg. daily is between 4.5 – 4.0 until Angel's well is 5.7 feet	Angel's Criteria – If Angel's well is <5.5 feet, then no limit on S-331 hw level If Angel's well is 5.5-6.0 feet, S-331 avg. daily is between 5.0 – 4.5 If Angel's well is above 6.0 feet, S-331 avg. daily is between 4.5 – 4.0 until Angel's well is 5.7 feet
L-29 Borrow Canal	G-3273 > 6.8 ft No inflows to NESRS	Match S-333 with S-334 flows

Location and Description of S-357

- S-357 Pump Station is located at the southern end of the Seepage Collection Canal just south of Richmond Drive

- Total Pump Station Capacity of 575 cubic feet per second (cfs)
  - 4 – 125 cfs diesel driven pumps
  - 1 – 75 cfs electric driven pump

S-357 Pump Station Purpose

- To maintain the existing level of flood protection within the 8.5 Square Mile Area
- To accomplish this task S-357 will maintain water levels within the Seepage Collection Canal
- Discharges from the pump station will go to the Stormwater Treatment Area (STA). There will be two phases to the operations of the STA:
  - Phase I – No overflow from STA
  - Phase II – Overflows will be allowed into the C-111 Project Northern Detention Area

Proposed Operational Criteria for S-357

- S-357 should be used to maintain water levels in the Seepage Collection Canal
  - Wet Season
    - Pumps on at 5.2 feet, NGVD29
    - Pumps off at 4.9 feet, NGVD29
  - Dry Season
    - Pumps on at 5.7 feet, NGVD29
    - Pumps off at 5.4 feet, NGVD29
- Phase I
  - To prevent overflow of STA the pumping discharge rate will be reduced or shutdown completely to prevent an overflow event
- Phase II
  - Overflows from STA will be allowed into the Detention Area

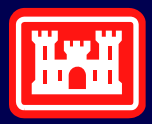
Proposed Operational Criteria for S-331

- 8.5 SMA Seepage Canal Criteria (replaces Angels Well)
  - Seepage Canal less than 5.5 ft, NGVD29
  - Seepage Canal between 5.5 ft and 6.0 ft, NGVD29
  - Seepage Canal greater than 6.0 ft, NGVD29
- Flood Control
- Water Supply

L-29 Borrow Canal

- IOP
  - G-3273 > 6.8 ft no inflows into NESRS
- S-357 Water Control Plan
  - Removes G-3273 constraint
  - L-29 Borrow Canal constraint will be modified to be consistent with FDOT concerns (7.5 foot constraint)

Comments on the Water Control Plan for S-357 can be provided by e-mail at
MWDWCPComments@evergladesplan.org **or**
U.S. Army Corps of Engineers, Jacksonville District
Attn: Trent Ferguson
701 San Marco Boulevard
Jacksonville, FL 32207-8175
Please provide any comments by 3 March 2008. Thank you!



U.S. Army Corps of Engineers Jacksonville District