



# Projects Update



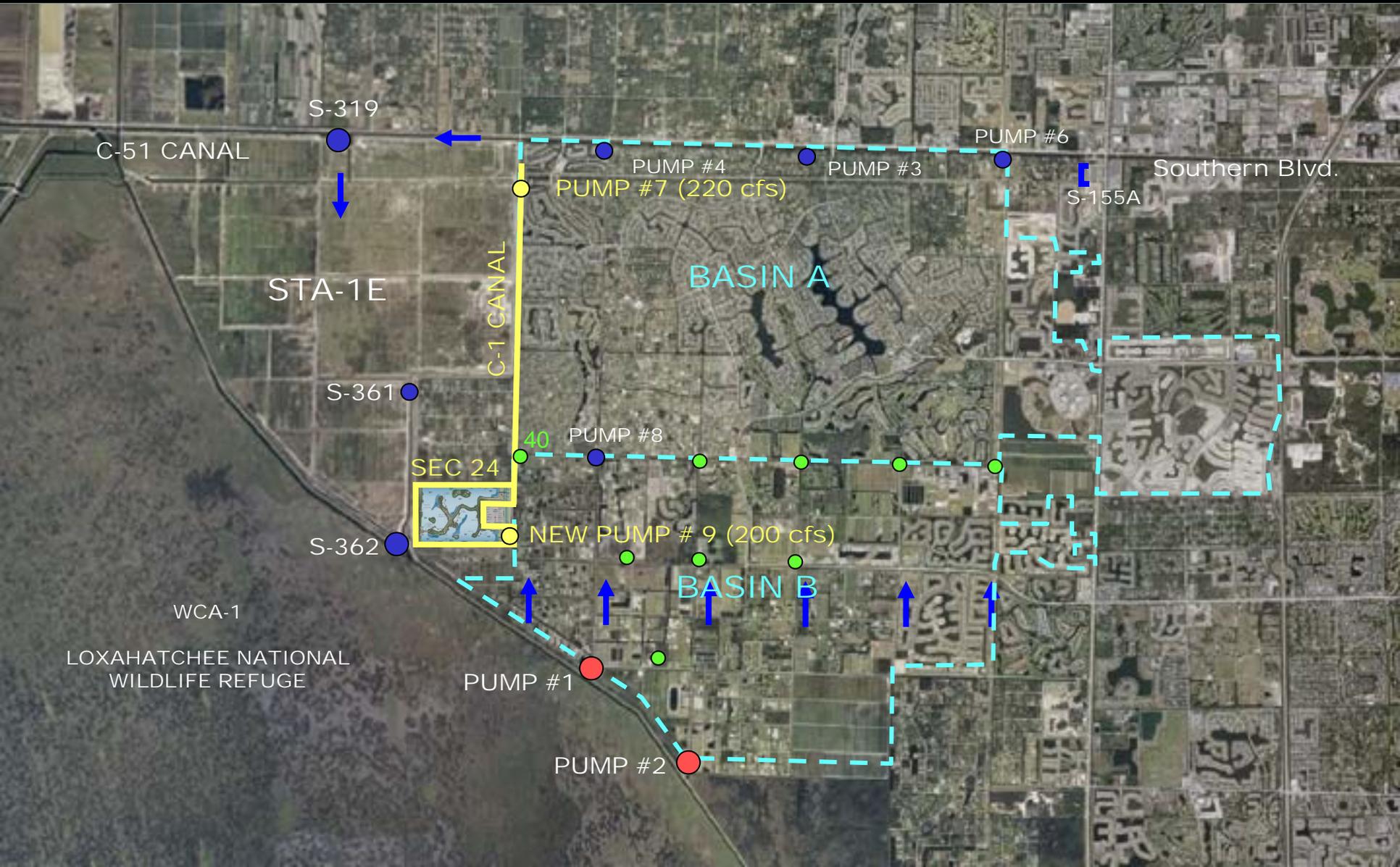
STAs and Related Projects Update – Part 2

TOC Quarterly Meeting  
May 18, 2010

John Mitnik, P.E.  
South Florida Water Management District



# ACME Basin B Discharge





# Project Purpose



The purpose of the Acme Basin B Discharge Project is to divert stormwater runoff from Acme Basin B to the C-51 West Canal and then to STA-1E for treatment prior to discharge to the Refuge.

Excess available water may be used to meet water supply demands in central and southern Palm Beach County.



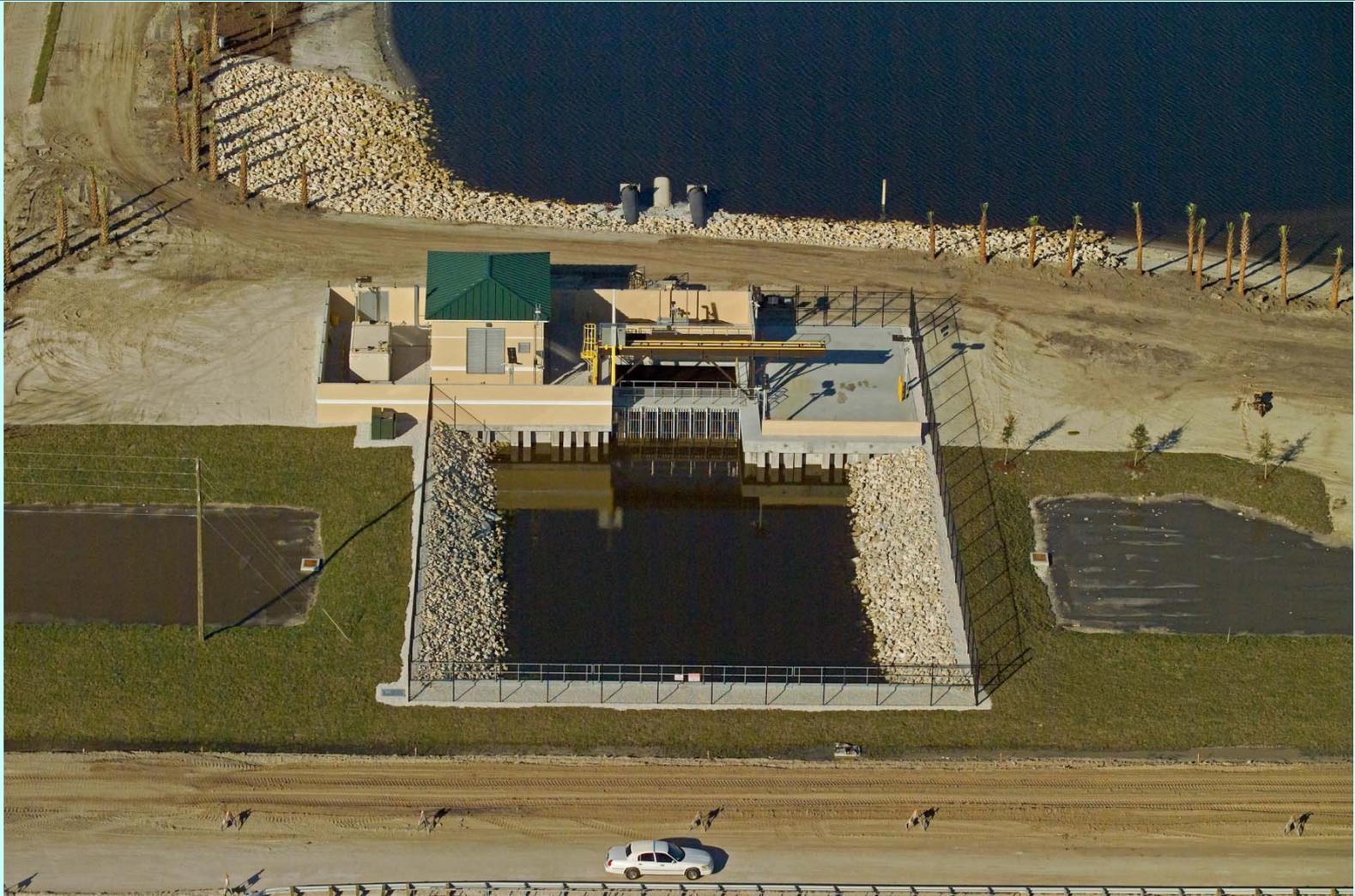
# ACME Basin B Discharge



- **Accomplishments to Date:**
  - C-1 Canal Improvements – Completed September 2007
  - Pump Station #7 – Completed March 2008
  - Pump Station #9 – Completed February 2010
  - Section 24 Impoundment – 95% Complete
  
- **What's Next:**
  - Complete Earthwork and Erosion Repairs
  - Finish Landscaping
  - Complete overlay pavement Flying Cow Road
  
- **Construction Completion:**
  - Pump Station #9 Complete - Completed
  - Section 24 Complete – May 2010



# ACME Basin B Discharge



**Everglades Protection Area Tributary Basins**



# ACME Basin B Discharge



**Everglades Protection Area Tributary Basins**



# EAA Compartment C STA Buildout



**Purpose:** The development of additional Stormwater Treatment Area (STA) to further improve the quality of water discharging to the Everglades Protection Area (EPA) by assisting with the redistribution of flows and loads to the STA system.

## Completed

- Phase 1 – Initial Expansion
  - STA-5 Flow-way 3 (1,985 Acres of Treatment Area)
  - STA-6 Section 2 (1,387 Acres of Treatment Area)
- Phase 2 Build-Out
  - Design of Civil Works(4,850 Acres of Treatment Area)
  - Pump Equipment Contract executed
  - G-508 Pump Station Final Design



# EAA Compartment C STA Buildout



- **Accomplishments to Date:**
  - **Complete Final Design-Civil Works**
  - **Completed Final Design-Pump Station**
  - **Purchased Pumps, Gear Reducer and Engines for Pump Station**
  - **Civil Works contract awarded at March Governing Board**
  - **USACE completed Record of Decision and Compartment C 404 permit prior to March 12, 2009 Governing Board**
  - **Land Use Change received**
  - **Started construction – Civil Works**
    - **NTP April 6, 2009**
  - **Started construction of G-508 pump station**
    - **NTP September 1, 2009**
  
- **What's Next:**
  - **Pump Equipment Manufacturing**
  - **Continue construction of Civil Works**
  - **Continue construction of G-508 pump station**
  
- **Construction Completion**
  - **Flow Capable Civil Works December 2010**
  - **Permanent Pump Station December 2011**



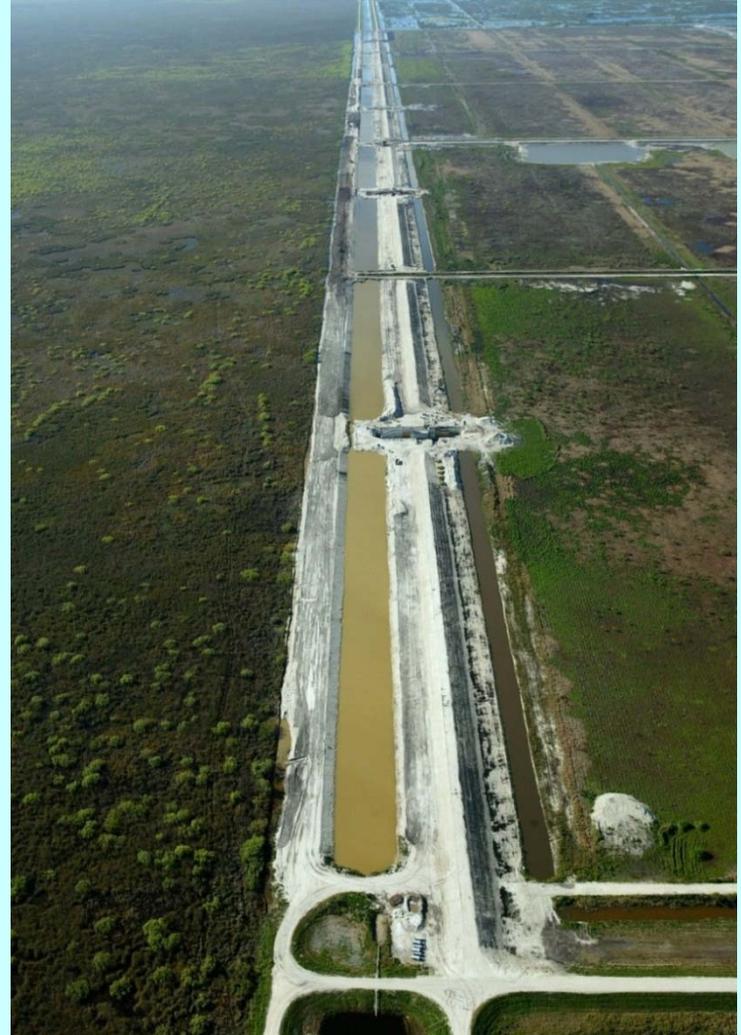
# **EAA Compartment C STA Buildout**



**Everglades Protection Area Tributary Basins**



# EAA Compartment C STA Buildout



**Everglades Protection Area Tributary Basins**



**G-342L**



**Everglades Protection Area Tributary Basins**



**G-342N**



**Everglades Protection Area Tributary Basins**



**G-408**



**Everglades Protection Area Tributary Basins**

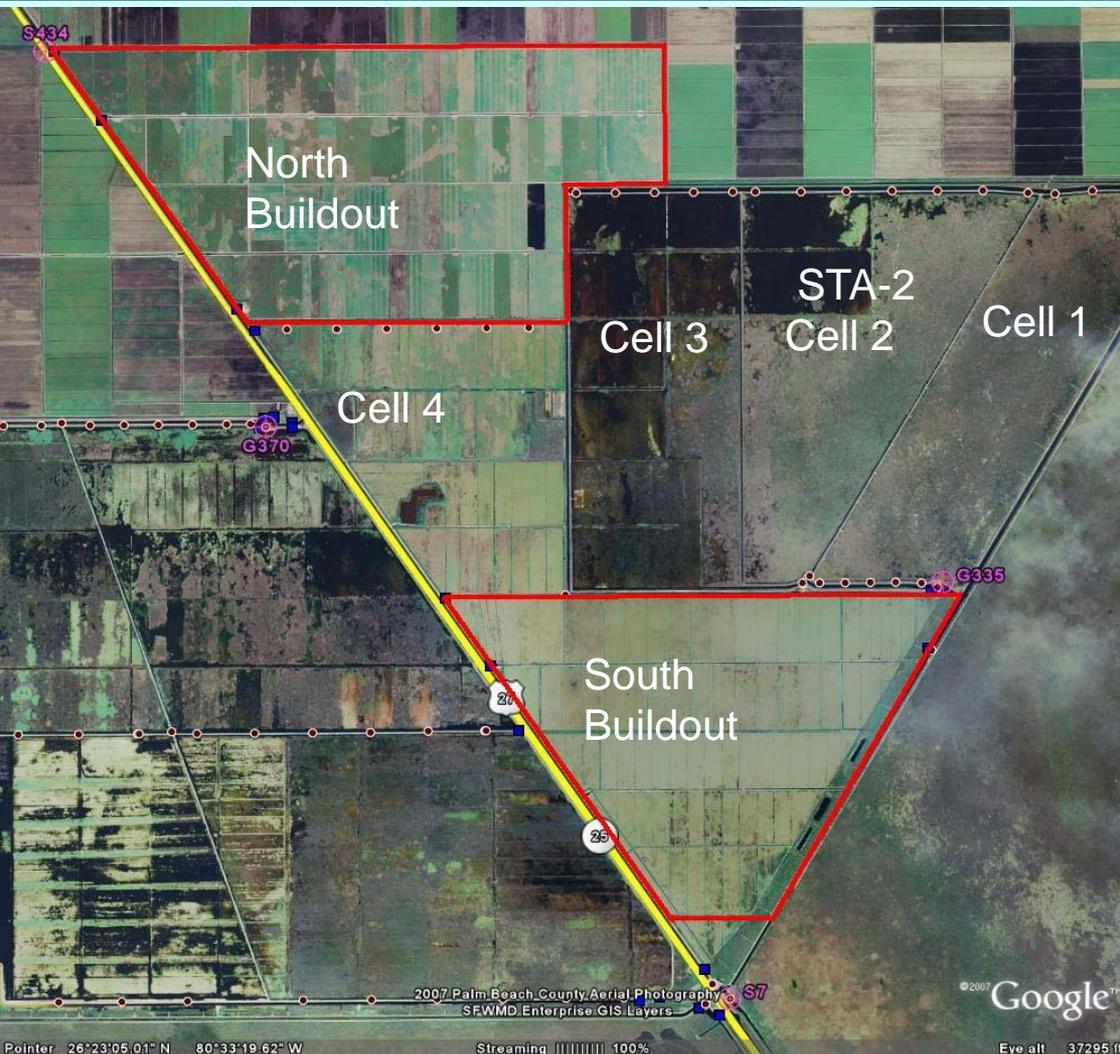


# G-508 Pump Station



**Everglades Protection Area Tributary Basins**

# EAA Compartment B STA Buildout



**Purpose:** The development of additional Stormwater Treatment Area (STA) to further improve the quality of water discharging to the Everglades Protection Area (EPA) by assisting with the redistribution of flows and loads to the STA system.

## Completed

- Phase 1 – Initial Expansion
  - STA-2 Cell 4  
(1,902 Acres of Treatment Area)
- Phase 2 - Build-out  
(6,722 Acres of Treatment Area)
  - Design of Civil Works
  - Final Design Report for G-434, G-435, & G-436 Pump Stations
  - Pump Equipment Contract executed

**Everglades Protection Area Tributary Basins**



# **EAA Compartment B STA Buildout**



- **Accomplishments to date:**
  - **Complete Final Design-Civil Works**
  - **Completed Final Design-Pump Stations**
  - **Completed Pump Equipment Contract Process**
  - **FDEP Permit received on March 17, 2009 with condition to re-design project discharge to Water Conservation Area 2A**
  - **USACE Permit Decision received May 2009**
  - **Started Construction – Civil Works**
    - **NTP June 1, 2009 for North and South Buildouts**
  - **Started Construction – Pump Stations G-434, G-435 & G-436**
    - **NTP September 14 & 17, 2009**
  - **Completed Final Design of Bridges at G-434 and G-435**
  
- **What's next:**
  - **Pump Equipment Manufacturing**
  - **Continue construction of Civil Works**
  - **Continue construction of Pump Stations**
  - **Re-Design of Project Discharge at L-6 Canal to Water Conservation Area 2A**
  - **Start construction of Bridges for G-434 and G-435**
  
- **Construction Completion**
  - **Flow Capable Civil Works – December 2010**
  - **Permanent Pump Stations – December 2011**

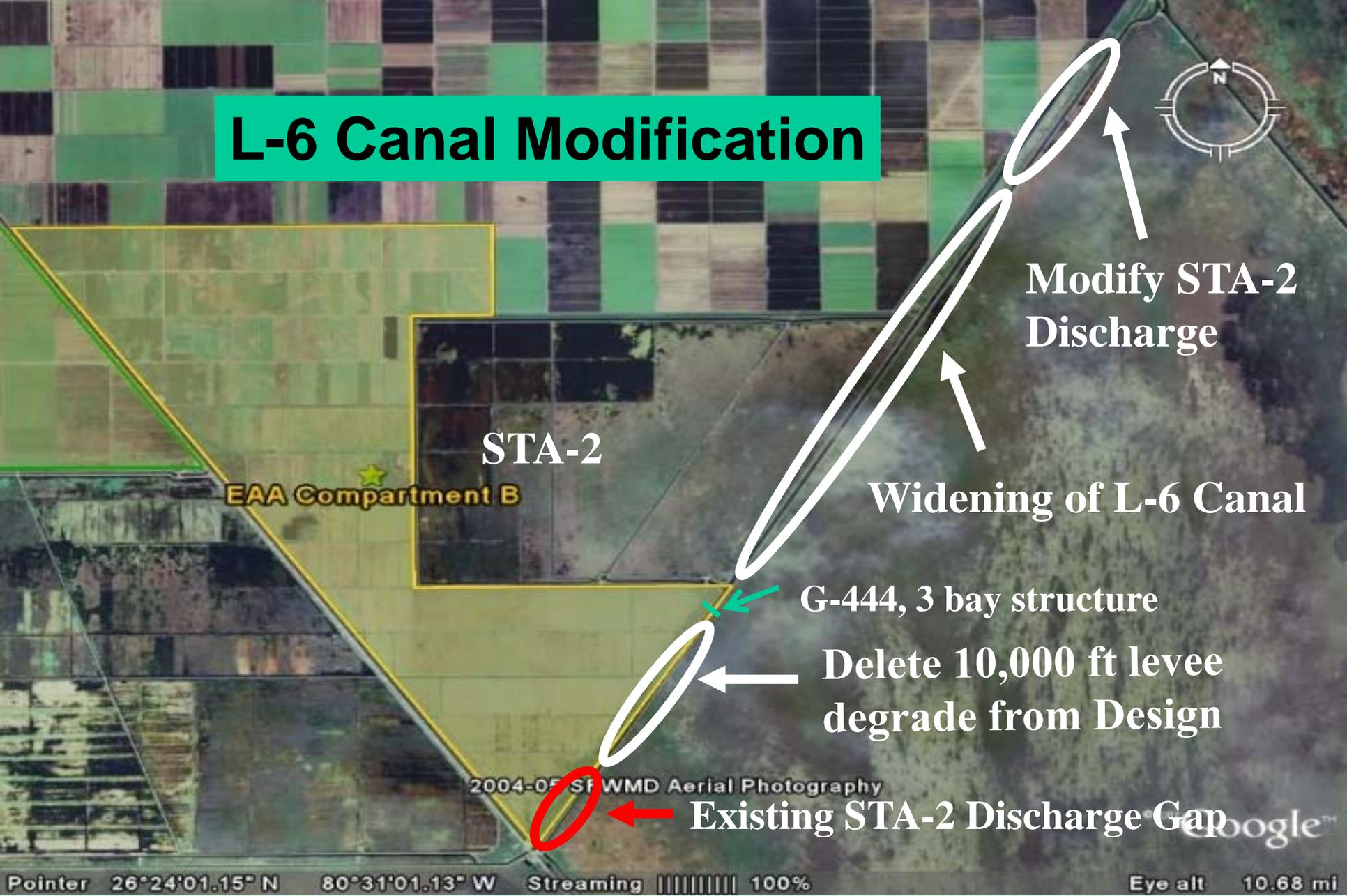


## L-6 Canal Modification



- Conceptual Design received July 2, 2009
- Final Geotechnical Report received Oct.14, 2009
- Intermediate Design received Sept.18, 2009
- Pre-Final Design received December 21, 2009
- Final Design due May 24, 2010
- Bid Opening – DELAY due to USACE 408 process review prior to issue of 404 permit

# L-6 Canal Modification



Modify STA-2 Discharge

Widening of L-6 Canal

G-444, 3 bay structure

Delete 10,000 ft levee degrade from Design

Existing STA-2 Discharge Gap

EAA Compartment B

STA-2

2004-05 SF WMD Aerial Photography

Google

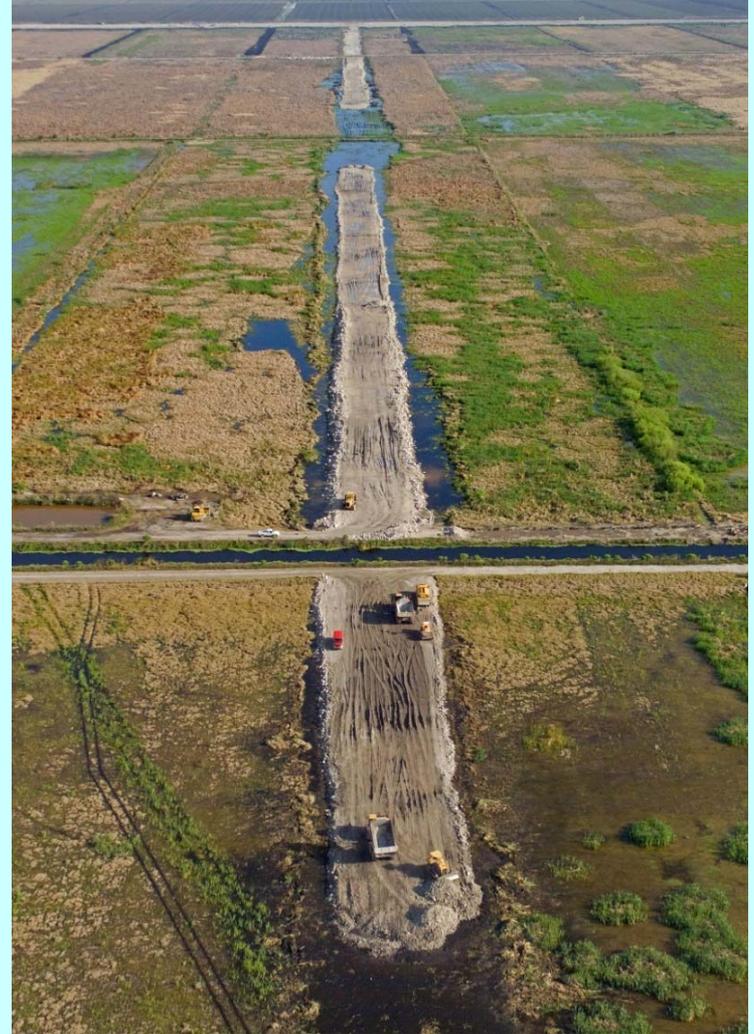
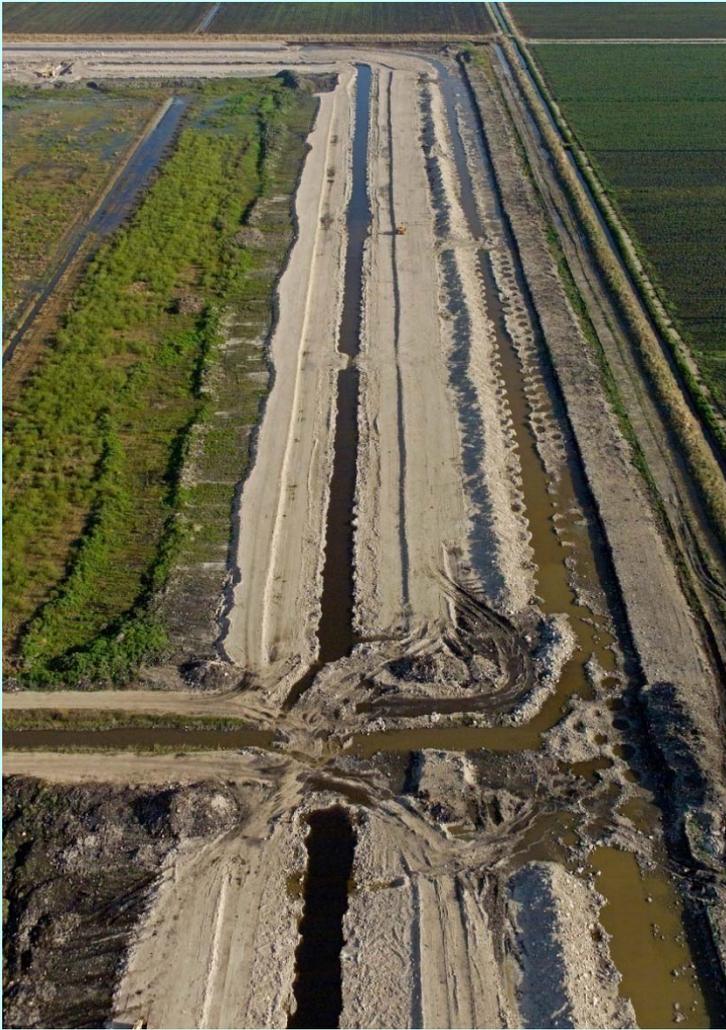
Pointer 26°24'01.15" N 80°31'01.13" W Streaming ||||| 100%

Eye alt 10.68 mi

**Everglades Protection Area Tributary Basins**



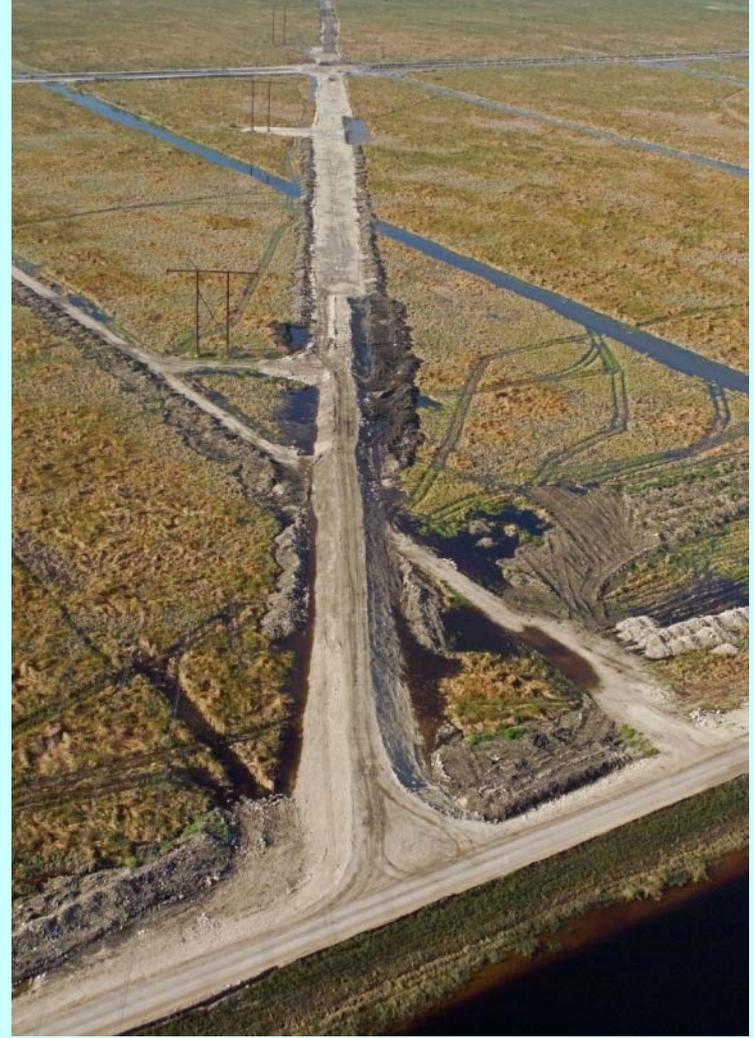
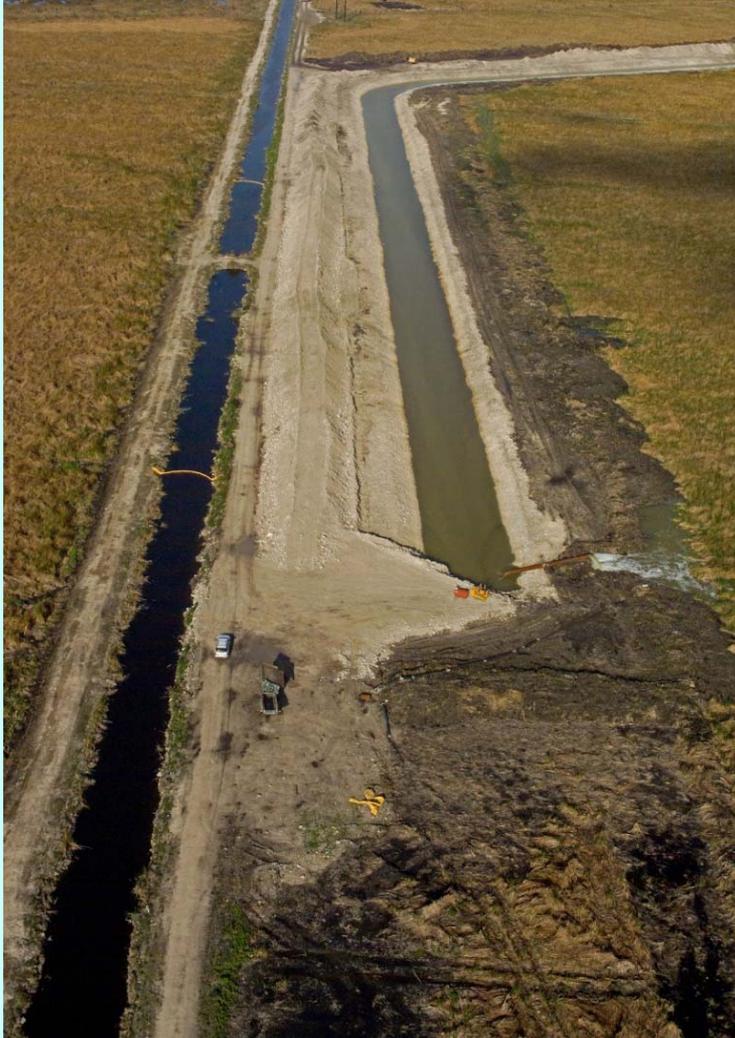
# EAA Compartment B STA North Buildout



**Everglades Protection Area Tributary Basins**



# EAA Compartment B STA South Buildout



**Everglades Protection Area Tributary Basins**



# G-435 Pump Station



**Everglades Protection Area Tributary Basins**



# G-434 Pump Station



**Everglades Protection Area Tributary Basins**



# G-436 Pump Station



**Everglades Protection Area Tributary Basins**



# G-436 Pump Station



**Everglades Protection Area Tributary Basins**