STAs and Related Projects Update – Part 2

December 15, 2009

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South Florida Water Management District
The purpose of the Acme Basin B Discharge Project is to divert storm water 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 – Substantially Completed
  - Section 24 Impoundment – 85% Complete

- **What’s Next:**
  - Complete Earthworks
  - Finish Landscaping
  - Complete overlay pavement Flying Cow Road

- **Construction Completion:**
  - Pump Station #9 Complete - January 2010
  - Section 24 Complete – April 2010

Everglades Protection Area Tributary Basins
Section 24 Impoundment

Everglades Protection Area Tributary Basins
Pump Station #9

Everglades Protection Area Tributary Basins
Inflow Structure

Everglades Protection Area Tributary Basins
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 2010
  - Permanent Pump Station 2011
Compartment C Buildout

Everglades Protection Area Tributary Basins
EAA Compartment C STA Buildout

Intermediate Levee

Discharge Canal

Everglades Protection Area Tributary Basins
EAA Compartment C STA Buildout

Trench for underground high-voltage electric cable

Everglades Protection Area Tributary Basins
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
EAA Compartment B STA Buildout

- **Accomplishments to date:**
  - Complete Final Design - Civil Works
  - Completed Final Design- Pump Stations
  - Complete 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 Buildout
  - Started Construction – Pump Stations G-434, G-435 & G-436
    - NTP September 14 & 17, 2009

- **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
  - Design of Bridges at G-434 and G-435

- **Construction Completion**
  - Flow Capable Civil Works – December 2010
  - Permanent Pump Stations 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 due December 21, 2009
- Final Design due February 19, 2010
- Bid Opening May 2010
- Contract Award May 2010 and NTP June 2010
L-6 Canal Modification

STA-2

Widening of L-6 Canal

G-444, 3 bay structure

Delete 10,000 ft levee degrade from Design

Existing STA-2 Discharge Gap

Everglades Protection Area Tributary Basins
Everglades Protection Area Tributary Basins

North Buildout looking west
North Buildout looking west

Everglades Protection Area Tributary Basins
G-438J & G-435

Everglades Protection Area Tributary Basins

G-435 Inflow Pump Station - looking west
Everglades Protection Area Tributary Basins

South Buildout looking west

Cell 4

Cell 3