STAs and Related Projects Update – Part 2

Technical Oversight Committee Meeting
November 30, 2010

John Mitnik, P.E.
South Florida Water Management District
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:**
  - Phase 1: C-1 Canal Improvements – Completed Sept. 2007
  - Phase 1: Pump Station #7 – Completed March 2008
  - Phase 2: Pump Station #9 & Outflow-Structure – Completed Feb. 2010
  - Phase 2: Section 24 Impoundment – Completed June 2010

- **What’s Next:**
  - Village of Wellington’s Grand Opening Ceremony on November 12, 2010

- **Construction Cost (Phase 2):**
  - $16,096,970 (includes EDC and CM costs). Original budget was $21.5 Million
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
Accomplishments to Date:
- Completed Final Design-Civil Works
- Completed Final Design-Pump Station
- Purchased Pumps, Gear Reducer and Engines for Pump Station
- Civil Works contract awarded at March 2009 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 March 2012
Everglades Protection Area Tributary Basins

EAA Compartment C
STA Buildout
Everglades Protection Area Tributary Basins
G-343O

Everglades Protection Area Tributary Basins
G-508 Pump Station

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
Accomplishments to date:

- Completed Final Design-Civil Works
- Completed Final Design-Pump Stations
- Completed Pump Equipment Contract Process
- FDEP Permit received on March 17, 2009
- 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
- Started Construction of Bridges at G-434 and G-435
  - NTP August 16, 2010
- Completed Re-Design of Project Discharge at L-6 Canal to Water Conservation Area 2A

What’s next:

- Pump Equipment Manufacturing
- Continue construction of Civil Works
- Continue construction of Pump Stations
- Continue construction of Bridges for G-434 and G-435

Construction Completion:

- Flow Capable Civil Works – December 2010
- Permanent Pump Stations – February 2012
L-6 Canal Modification
DEFERRED

- 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 August 31, 2010
- Bid Opening – DELAY due to USACE 408 process review regarding flood protection prior to issue of 404 permit
L-6 Canal Modification DEFERRED

- Existing STA-2 Discharge Gap
- 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

Everglades Protection Area Tributary Basins
EAA Compartment B
STA North Buildout

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-441

Everglades Protection Area Tributary Basins
Everglades Protection Area Tributary Basins

G-434 Pump Station
G-435 Pump Station

Everglades Protection Area Tributary Basins
G-436 Pump Station

Everglades Protection Area Tributary Basins
Questions?