



# Projects Update



Quarterly Meeting of the  
Technical Oversight Committee

December 18, 2007

Tracey Piccone, P.E.  
South Florida Water Management District

**Everglades Protection Area Tributary Basins  
Long-Term Plan for Achieving Water Quality Goals**



# EAA Reservoir A-1



- GMP1 - Construction is completed (\$10M under budget)
- GMP2 – Rock processing plant start up & testing Nov. 9, 2007.
- GMP3 – Remainder of seepage canal 50% complete.



# EAA Reservoir A-1



## Rock Processing GMP2



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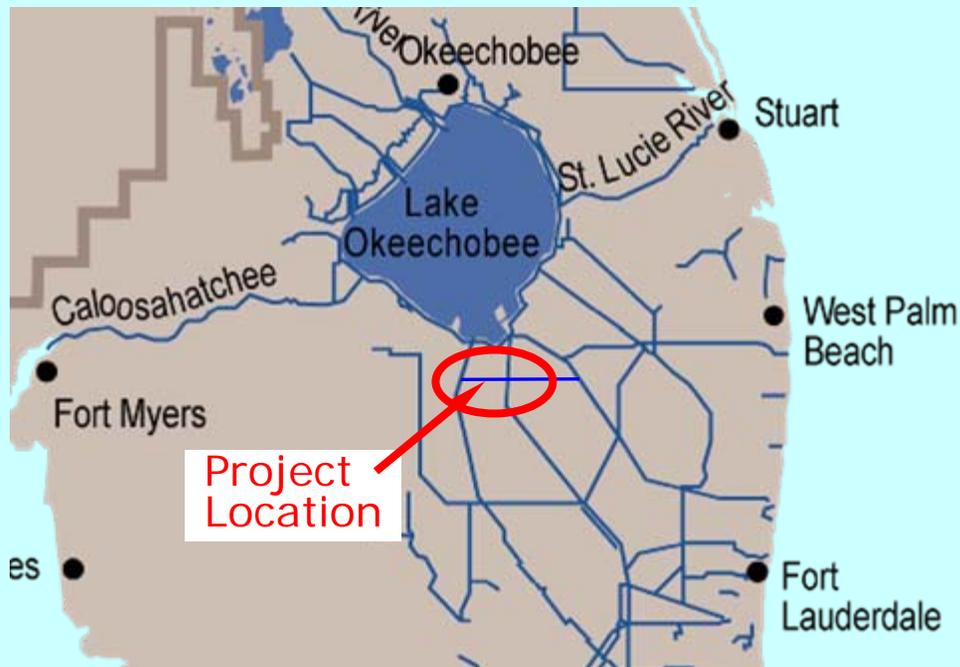
# EAA Reservoir A-1



- Accomplishments to date:
  - Mobilization, and 3 miles initial seepage canal completed and addition of 1 mile of muck removal (GMP 1) .
  - Rock Mining aggregate production ready to start (GMP 2)
  - Remaining work on seepage canal 50% complete (GMP 3)
  - Initiated procurement process of pump equipment
- What's next:
  - Continuation of negotiations for embankment construction (GMP 4)
  - Pre-purchase pumping equipment-initiated proposal to be advertised next quarter



# Bolles (L-21) Canal Improvements

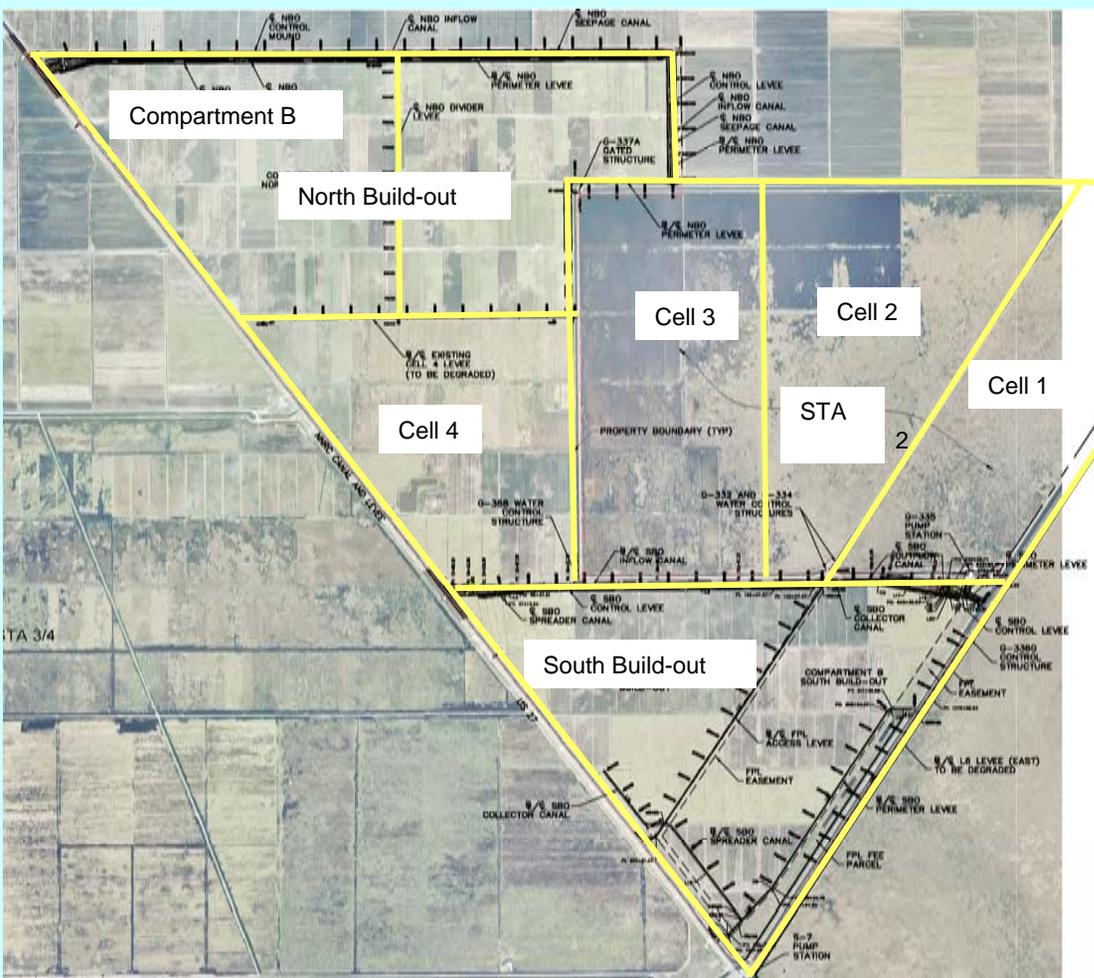


- Basis of Design Report complete
- Initiating Preliminary Design

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# Compartment B STAs



**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)

**Under Design**

- Phase 2 - Build-out
- Compartment B Build-Out (6,722 Acres)



# Compartment B – Phase 2

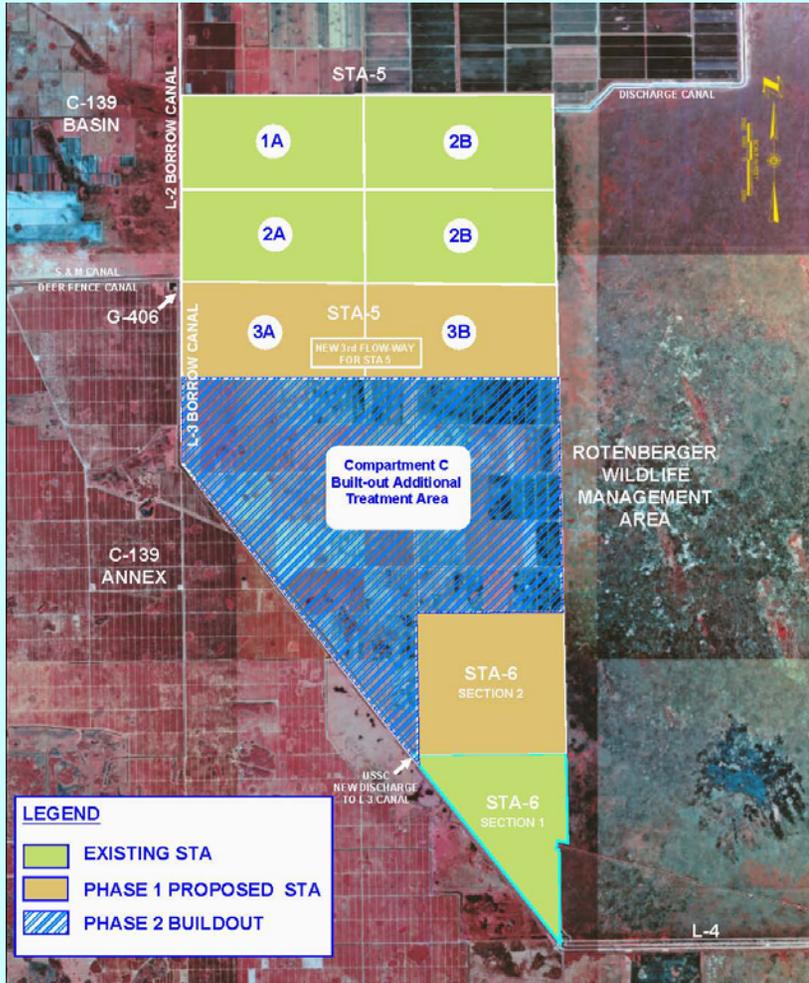
## Compartment B Build-out



- **Accomplishments to date:**
  - **Completed Survey work (topographic & boundary)**
  - **Completed Geotechnical Data Collection**
  - **Completed Final Basis of Design Report**
  - **Completed Preliminary Design-Civil Works**
  
- **What's next:**
  - **Complete Preliminary Design-Pump Stations**
  - **Complete Intermediate Design-Civil Works**
  
- **Construction Completion**
  - **Civil Works 2010**
  - **Pump Stations 2011**



# Compartment C STAs



**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)
- STA-6 Section 2 (1,387 Acres)

## Under Design

- Phase 2 - Build-out
- Compartment C Build-Out (6,200 Acres)



# Compartment C – Phase 2

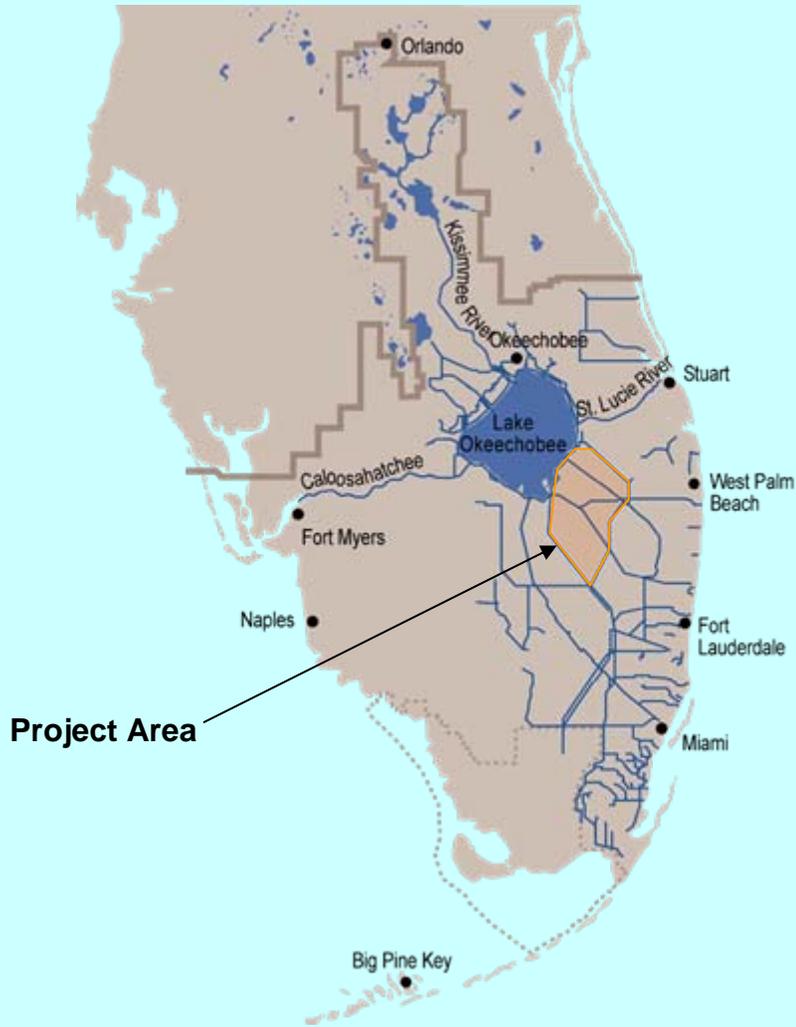
## Compartment C Build-out



- **Accomplishments to Date:**
  - **Completed Preliminary Survey Work (topographic & boundary)**
  - **Completed Preliminary Geotechnical Data Collection**
  - **Completed Compartment C Watershed Hydraulic Study**
  - **Completed Final Basis of Design Report**
  
- **What's Next:**
  - **Complete Preliminary Design-Civil Works**
  - **Complete Preliminary Design-Pump Station**
  
- **Construction Completion**
  - **Civil Works 2010**
  - **Pump Station 2011**



# EAA Conveyance and Regional Treatment (ECART) Project



## Project Purpose:

Redistribution of flows and loads to optimize the performance of the existing and expanded STAs to improve water quality in the EPA.

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# EAA Conveyance and Regional Treatment (ECART) Project



## EAA RFS Alternative 1

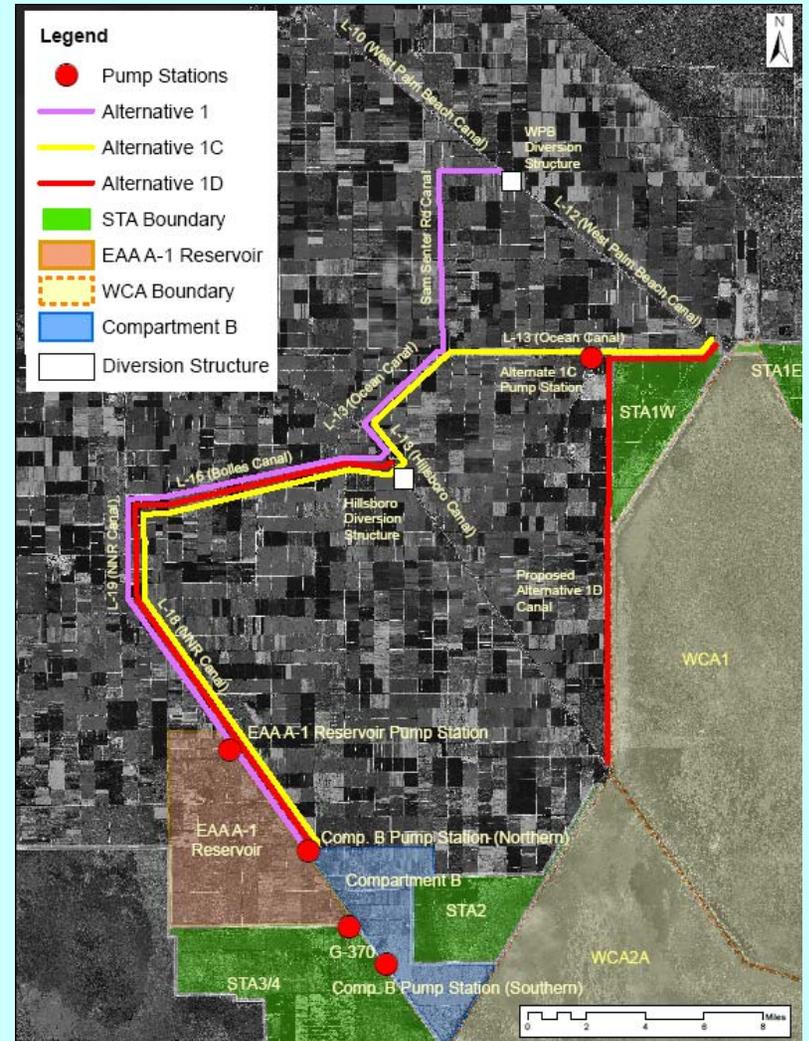
- 40 miles of canal work
- New structure at West Palm Beach Canal
- New structure at Hillsboro Canal
- 1,354 acres of land acquisition

## Alternative 1C

- Delete new structure at West Palm Beach Canal
- Delete connection from West Palm Beach Canal to Sam Senter Canal
- New 800 cfs pump station on Ocean Canal
- Improvements to Ocean Canal
- 870 acres of land acquisition

## Alternative 1D

- Delete new structure at West Palm Beach Canal
- Delete connection from West Palm Beach Canal to Sam Senter Canal
- No improvements to Hillsboro and Ocean Canals
- New canal from Ocean Canal to Hillsboro Canal
- 1,208 acres of land acquisition



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# EAA Conveyance and Regional Treatment (ECART) Project



- Accomplishments to Date:
  - Completed Feasibility Analysis of Alternatives 1C & 1D
  - Initiated Preliminary Survey
  - Initiated Environmental Sampling Scope of Work Development
  - Initiated Preliminary Geotechnical
- What's Next:
  - Complete Basis of Design Report
    - Current scheduled completion date: September 2008



# **STA-1W Update**



## **STA-1W Rehabilitation Update**

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# STA-1W Pre-Rehab



Cell 2B



Cell 2B



Inorganic  
sediment in  
Cell 4



Cell 4

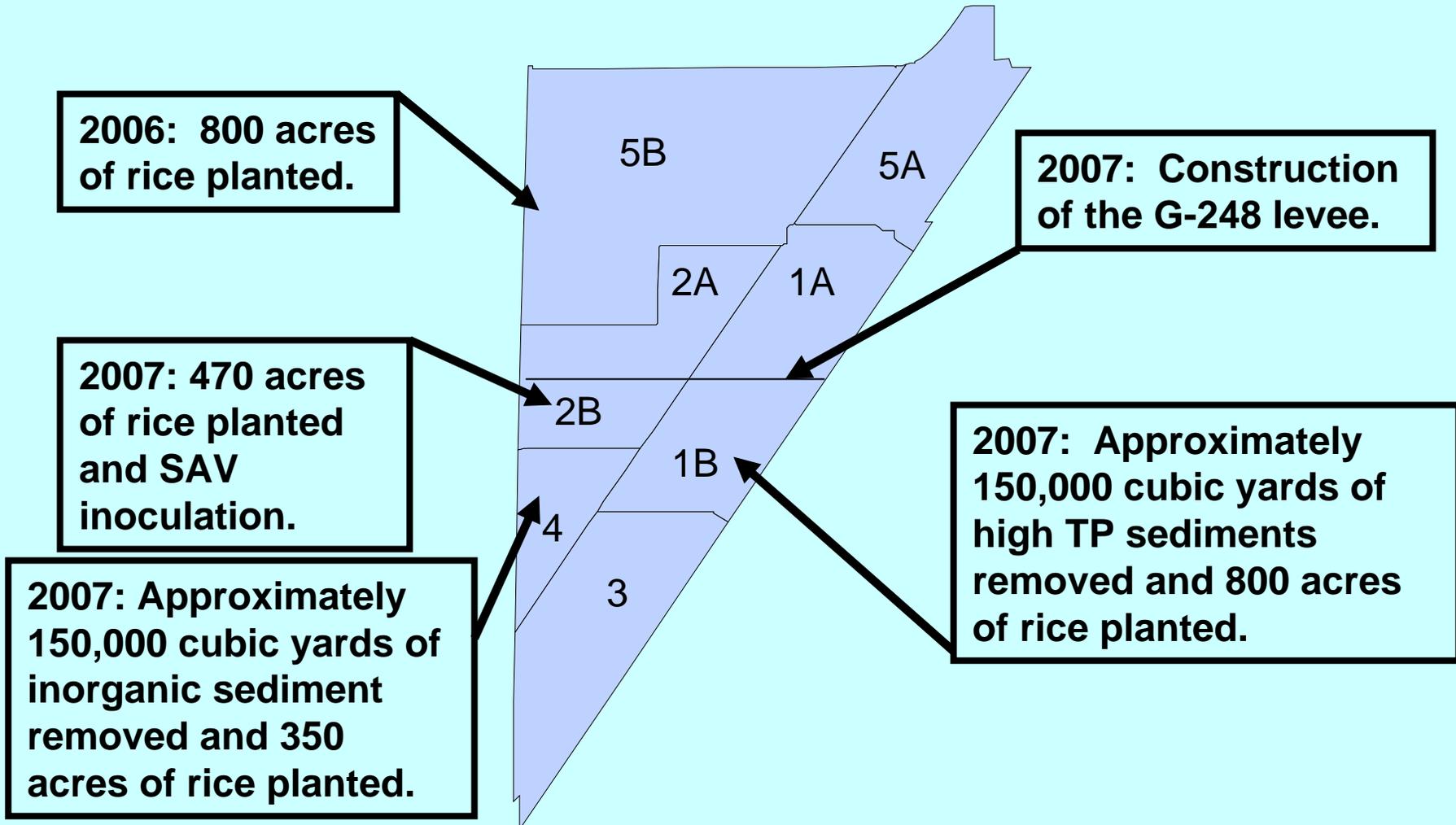


Cell 4

**Everglades Protection Area Tributary Basins  
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# Location and Description of Rehab Activities



**Everglades Protection Area Tributary Basins  
Long-Term Plan for Achieving Water Quality Goals**



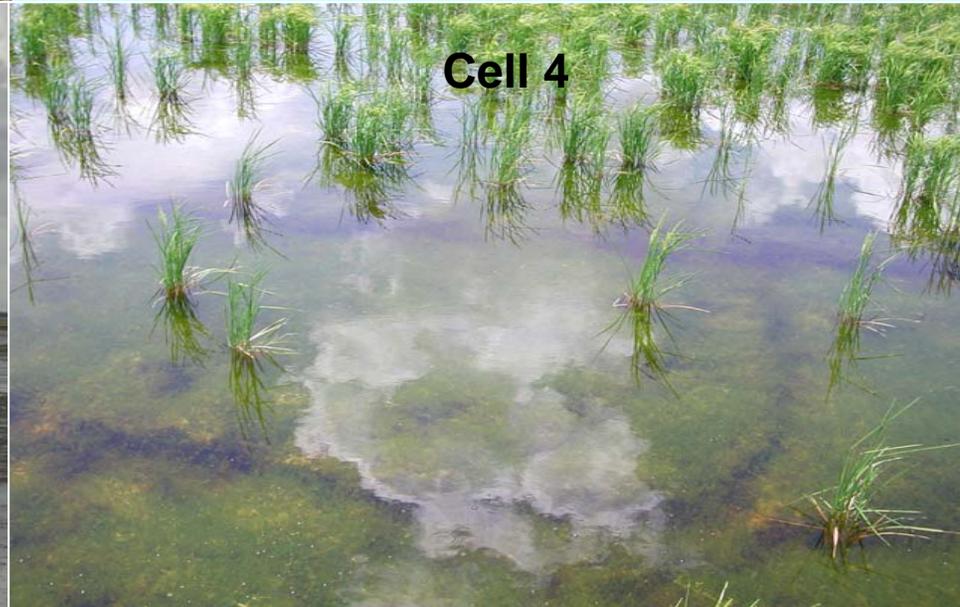
# STA-1W Post Rehab Conditions



- Water column Total Suspended Solids (TSS), SAV coverage, and outflow phosphorus concentrations continue to improve in rehabilitated cells



**Cell 5B**



**Cell 4**