



2008 Report on the Everglades Protection Area Long-Term Plan for Achieving Water Quality Goals

WRAC Meeting
October 2, 2008
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STA Management Division*

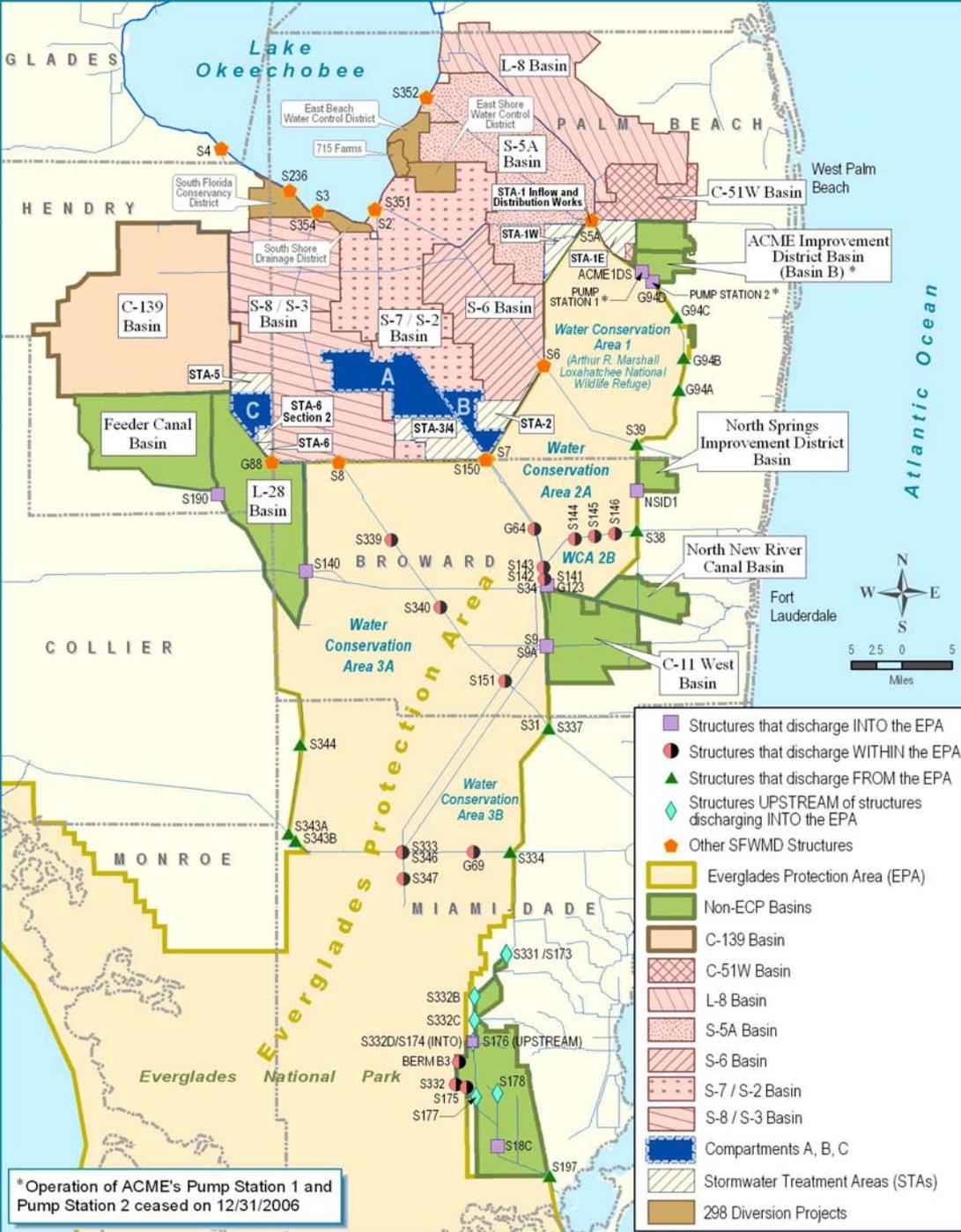




What is the Long-Term Plan?

- **State's blueprint for achieving 10 parts per billion (ppb) phosphorus in Everglades**
- **Identified in the 2003 EFA and the Everglades phosphorus rule as Best Available Phosphorus Reduction Technology**
- **Success is predicated upon adaptive implementation**
- **Revision process includes public involvement component**
 - **Long-Term Plan, WRAC and Governing Board meetings**
- **Only Florida Department of Environmental Protection (FDEP) can approve Long-Term Plan revisions**

Long-Term Plan



- STA-1E
- STA-1W
- STA-2
- STA-3/4
- STA-5
- STA-6
- Acme Basin B
- North Springs Improvement District Basin
- North New River Canal Basin
- C-11W Basin
- Feeder Canal Basin
- L-28 Basin

* Operation of ACME's Pump Station 1 and Pump Station 2 ceased on 12/31/2006



What is the 2008 Report?



- **First 5-year report on implementation of the 2003 Long-Term Plan**
- **Separate from South Florida Environmental Report (SFER)**
- **Due to Governor and Legislature no later than December 31, 2008**
- **Future revisions to the Long-Term Plan**



2008 Report Summary

- **Substantial progress has been made in reducing phosphorus levels discharged to the Everglades**
 - **EAA BMP Regulatory Program**
 - **Construction of over 45,000 acres of STAs**
 - **Design underway on additional 11,600 acres**

- **Combined performance of the EAA BMPs and the STAs has exceeded expectations**
 - **Over 2,800 metric tons of phosphorus have been prevented from entering the Everglades**



2008 Report Summary

- **Water Quality Improvement Strategies ECP Basins**
 - **EAA Phosphorus Source Controls have prevented over 1,800 metric tons of phosphorus from entering Everglades**
 - **Chapter 298 District Diversion projects (2001-2005)**
 - **Wellington Acme Basin B Diversion project (2006)**
 - **STA Enhancements and Expansions (2004-2008)**
 - **Internal levees and structures in STA-1W, STA-3/4, STA-5**
 - **Vegetation conversion and management activities in all STAs**
 - **STA-2, STA-5 and STA-6 expansions (5,274 acres)**
 - **STA-3/4 Periphyton Stormwater Treatment Area project**
 - **Recreational Facilities for STA-1E, STA-1W, STA-3/4**



2008 Report Summary

- **Water Quality Improvement Strategies Non-ECP Basins**
 - **Phosphorus Source Controls programs**
 - Local government, private water control districts, conservation programs
 - Public outreach and education activities
 - Operational and structural modifications implemented resulting in reduced discharges to the Everglades
 - Permit conditions requiring BMPs
 - **Integration with CERP Projects**



2008 Report Summary

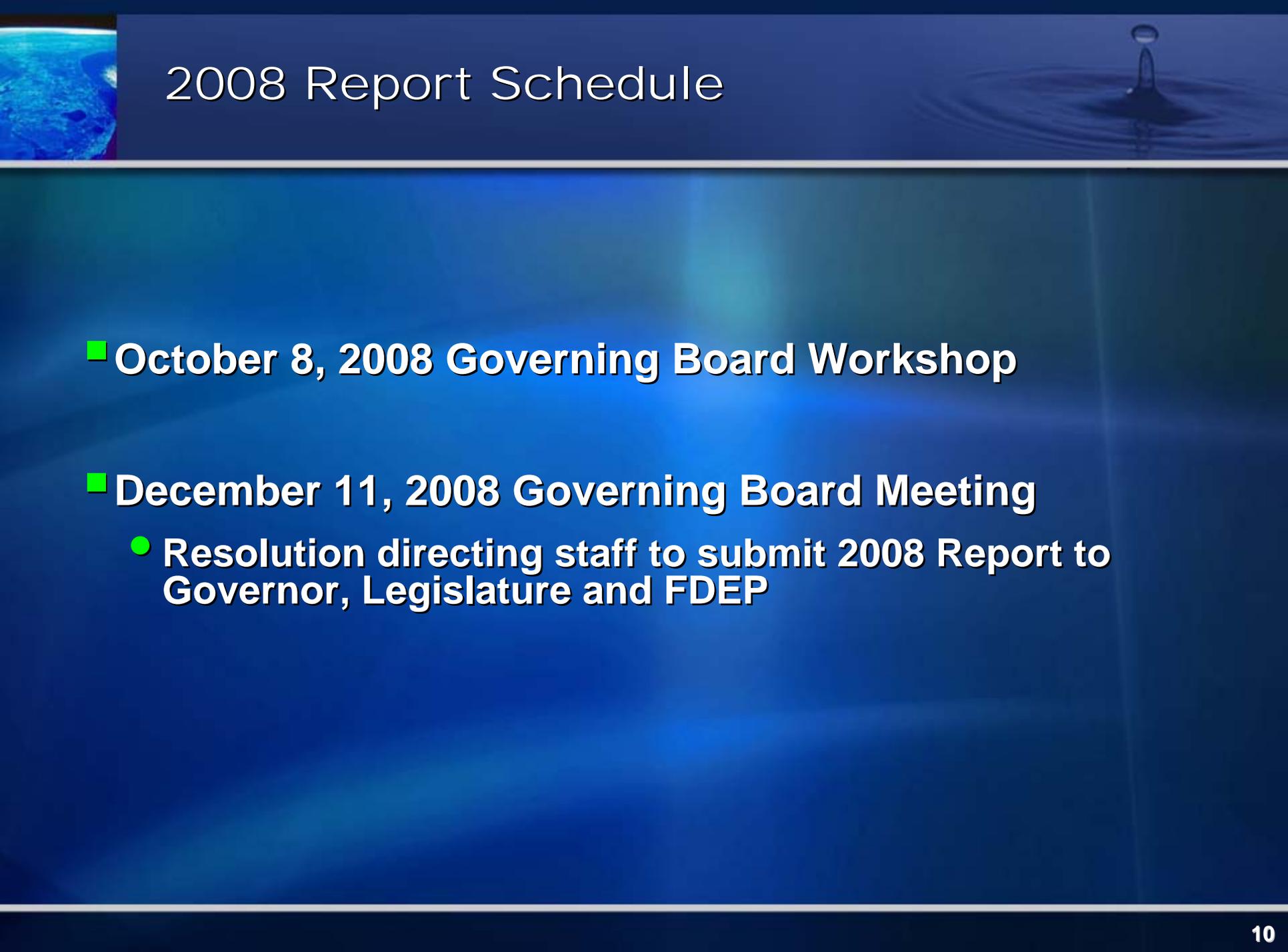
■ **Process Development and Engineering (PDE) Component**

- **Enhanced control and monitoring of STA inflows and outflows**
- **Ongoing analysis and interpretation of STA performance**
- **Improvements to hydraulic and water quality modeling tools**
- **Researching and implementing STA vegetation management strategies**
- **Improved reliability of predicted inflows to the STAs and the Everglades**



2008 Report Summary

- **Recovery of Impacted Areas within the Everglades Protection Area**
 - **Model development work substantially complete and ongoing**
 - **Research in STA downstream receiving areas ongoing**
 - **Initial results have shown improvements in impacted areas of WCA-2A downstream of STA-2 discharges**
 - **Hydroperiod, hydroperiod, water quality, soils, and periphyton**
 - **No negative impacts noted in unimpacted areas**
 - **Options for Accelerating Recovery research ongoing**
 - **Fire Project and CHIP project**



2008 Report Schedule

- **October 8, 2008 Governing Board Workshop**
- **December 11, 2008 Governing Board Meeting**
 - **Resolution directing staff to submit 2008 Report to Governor, Legislature and FDEP**