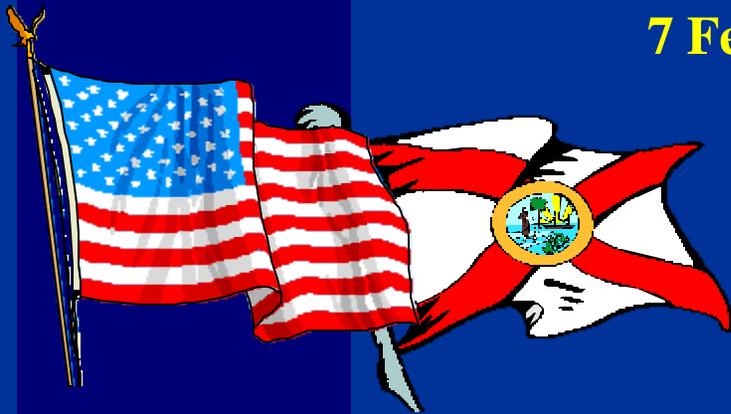




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COMPREHENSIVE EVERGLADES RESTORATION PLAN

7 February 2001

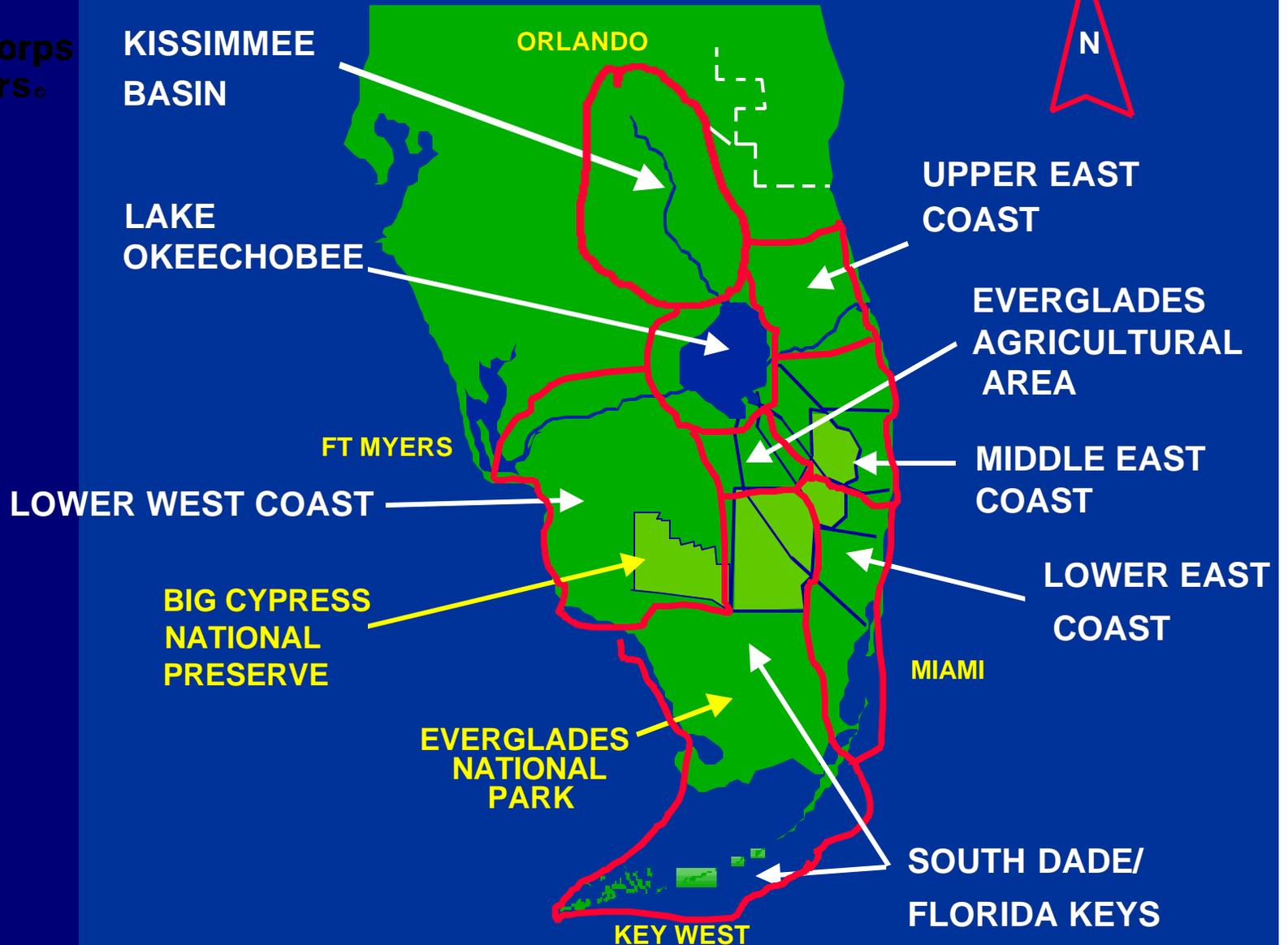


Dennis Duke
Jacksonville District

SOUTH FLORIDA REGIONS



**US Army Corps
of Engineers.**



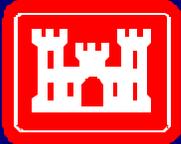


LAKE OKEECHOBEE ASR PILOT

**US Army Corps
of Engineers.**

- **Estimated 8 ASR wells at 4 sites**
- **Pump Plants, water treatment facilities, large diameter wells with monitoring wells**
- **Evaluate and refine large scale ASR**
- **Estimated Cost - \$19 million**
- **Status - PMP complete Feb**

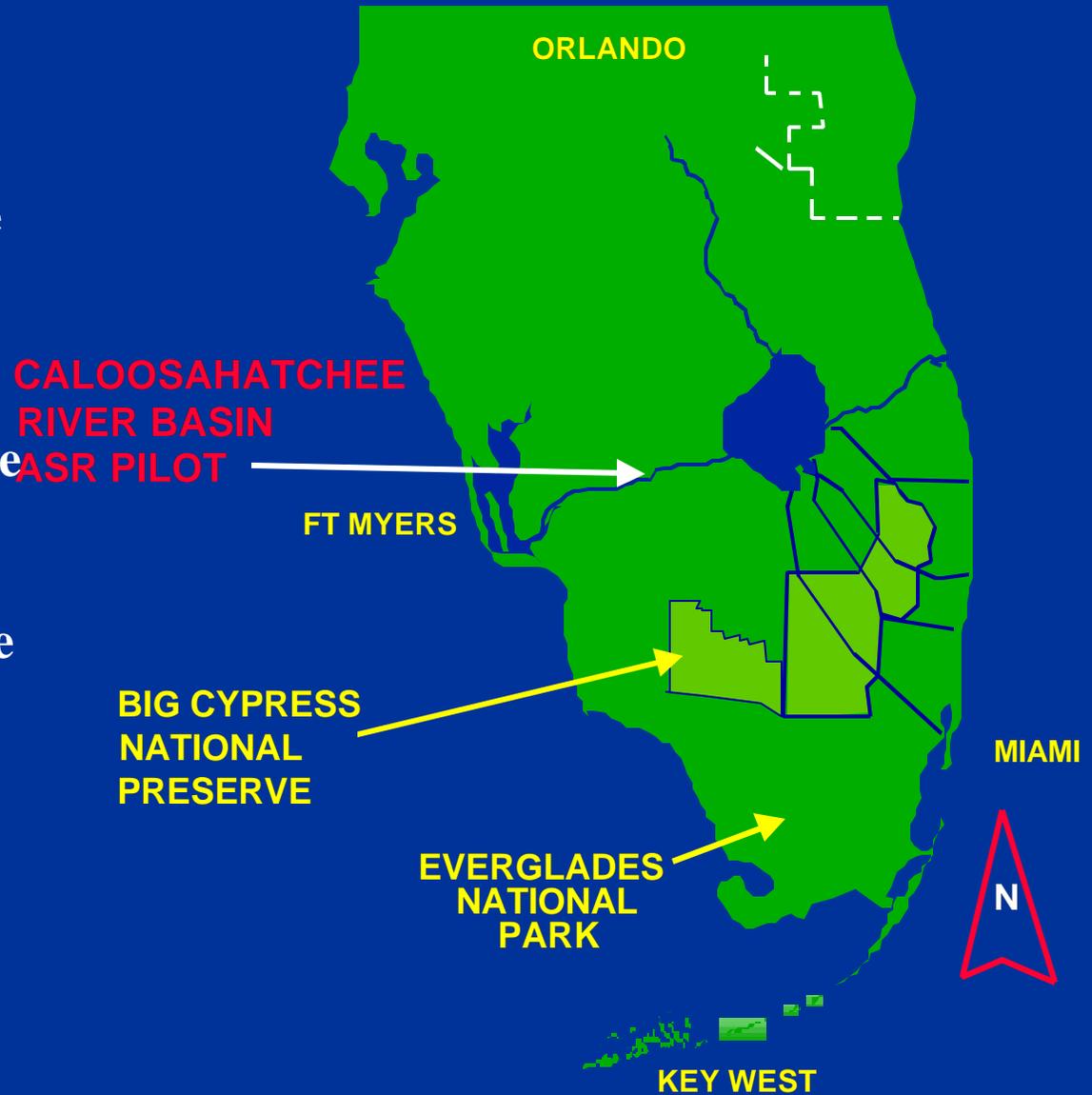




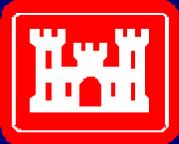
US Army Corps
of Engineers.

- Conceptual plan calls for ASR test wells in the Caloosahatchee Basin
- Pump Plants, water treatment facilities, large diameter wells with monitoring wells to evaluate and refine large scale ASR
- Estimated Cost - \$6 million
- Status - To start this spring

CALOOSAHATCHEE RIVER ASR PILOT



L-31N LEVEE SEEPAGE MANAGEMENT PILOT



**US Army Corps
of Engineers.**

- Investigate seepage management technologies
- Reduce ground water loss to east while minimizing potential impacts to Miami-Dade County's West well field and freshwater flows to Biscayne Bay
- Estimated Cost - \$10 million
- Status - PMP Started

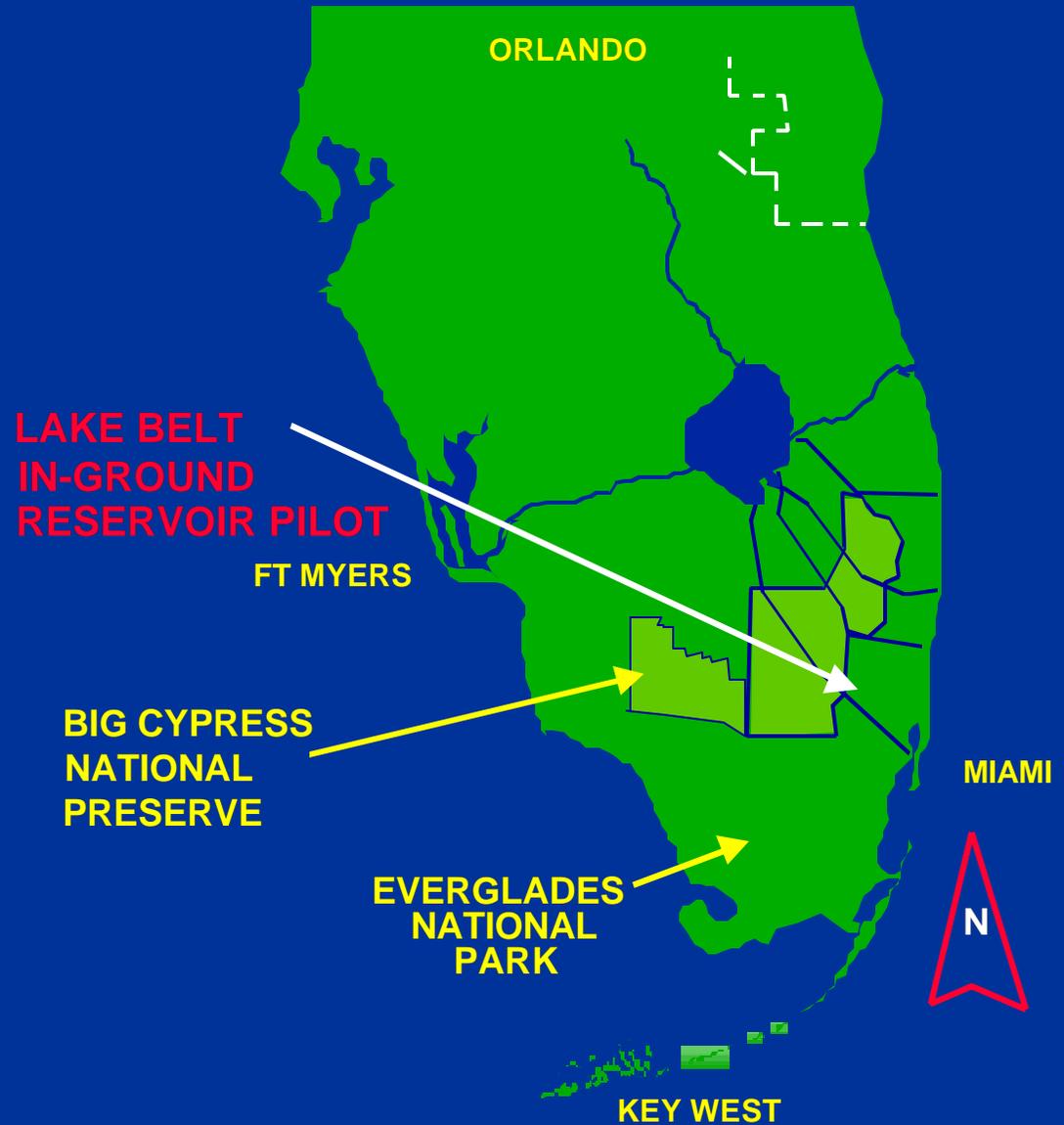


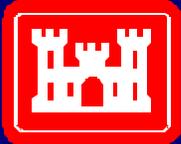
LAKE BELT IN-GROUND RESERVOIR PILOT



**US Army Corps
of Engineers.**

- **Determine feasibility of using rock mine lakes as reservoirs that can be drawn down during dry periods without significant seepage losses and without impacting water quality due to transmissivity of aquifer**
- **Estimated Cost - \$10 million**
- **Status - Starting PMP development**

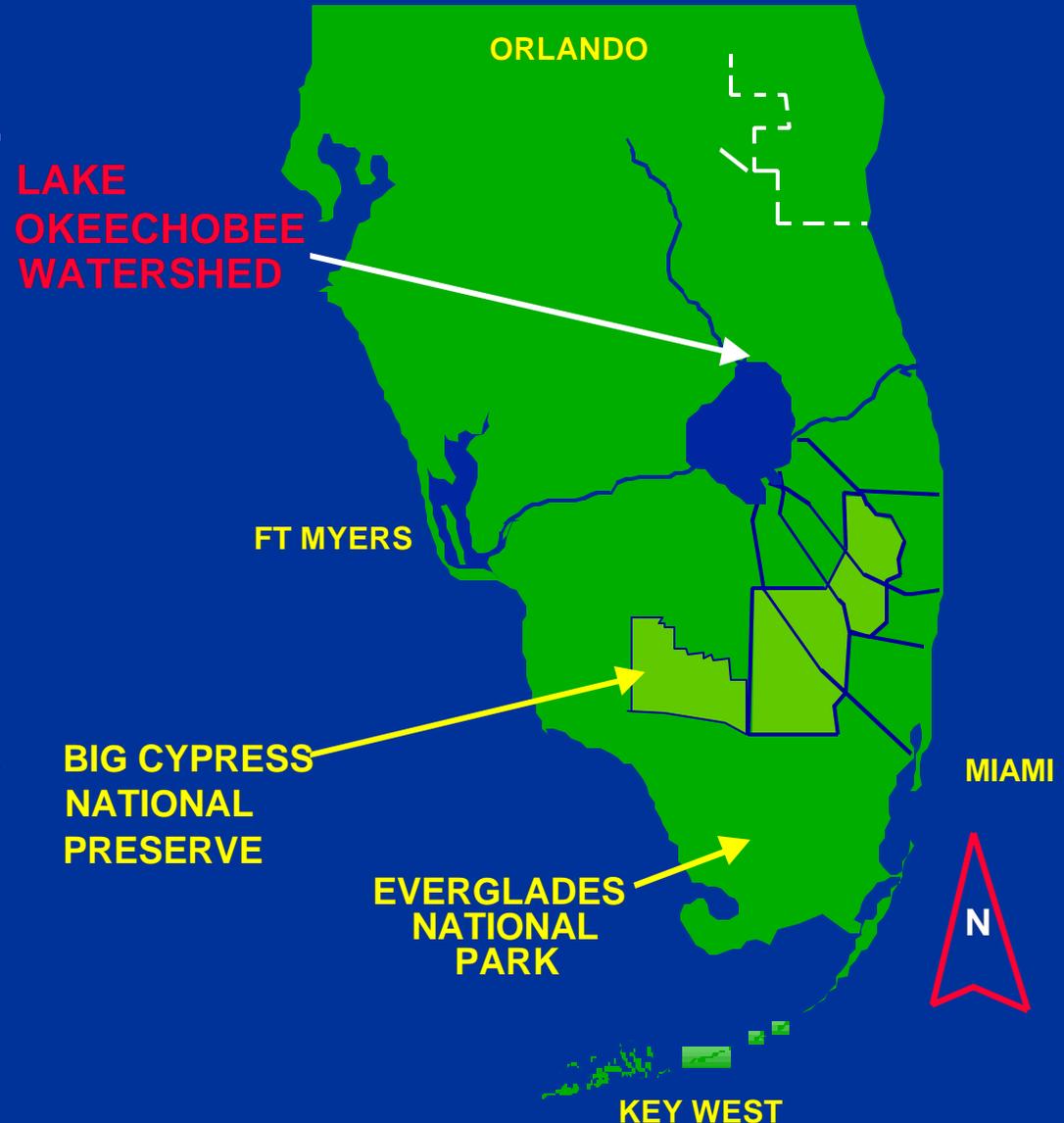


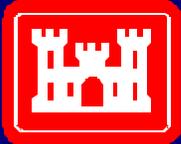


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of Engineers.**

- **North Storage Reservoir - 200k AF reservoir with 2.5k ac STA**
- **Taylor Creek/Nubbin Slough RSTA with 50k AF reservoir and 20k ac STA**
- **Water quality treatment facilities with 3.5k ac RSTA**
- **Tributary Sediment Dredging with 10 miles of sediment dredging on canals**
- **Estimated Cost - \$455 million**
- **Status - PMP Complete June 01**

LAKE OKEECHOBEE WATERSHED

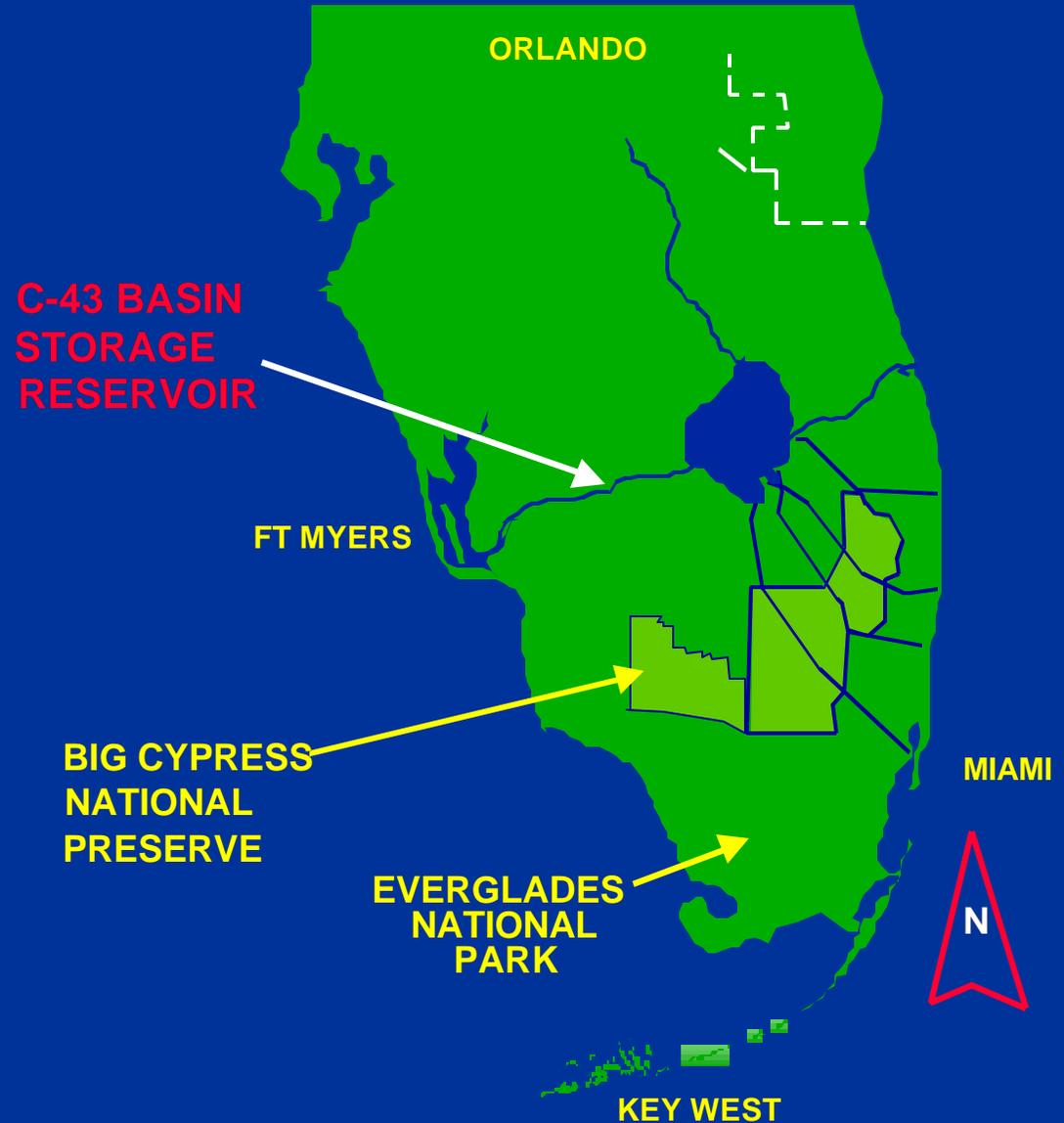




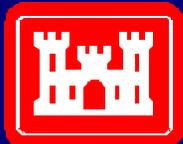
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of Engineers.

C-43 BASIN STORAGE RESERVOIR

- 160,000 ac-ft reservoir
- Environmental benefits to Caloosahatchee Basin
- Estimated Cost - \$201 million
- Status - PMP started

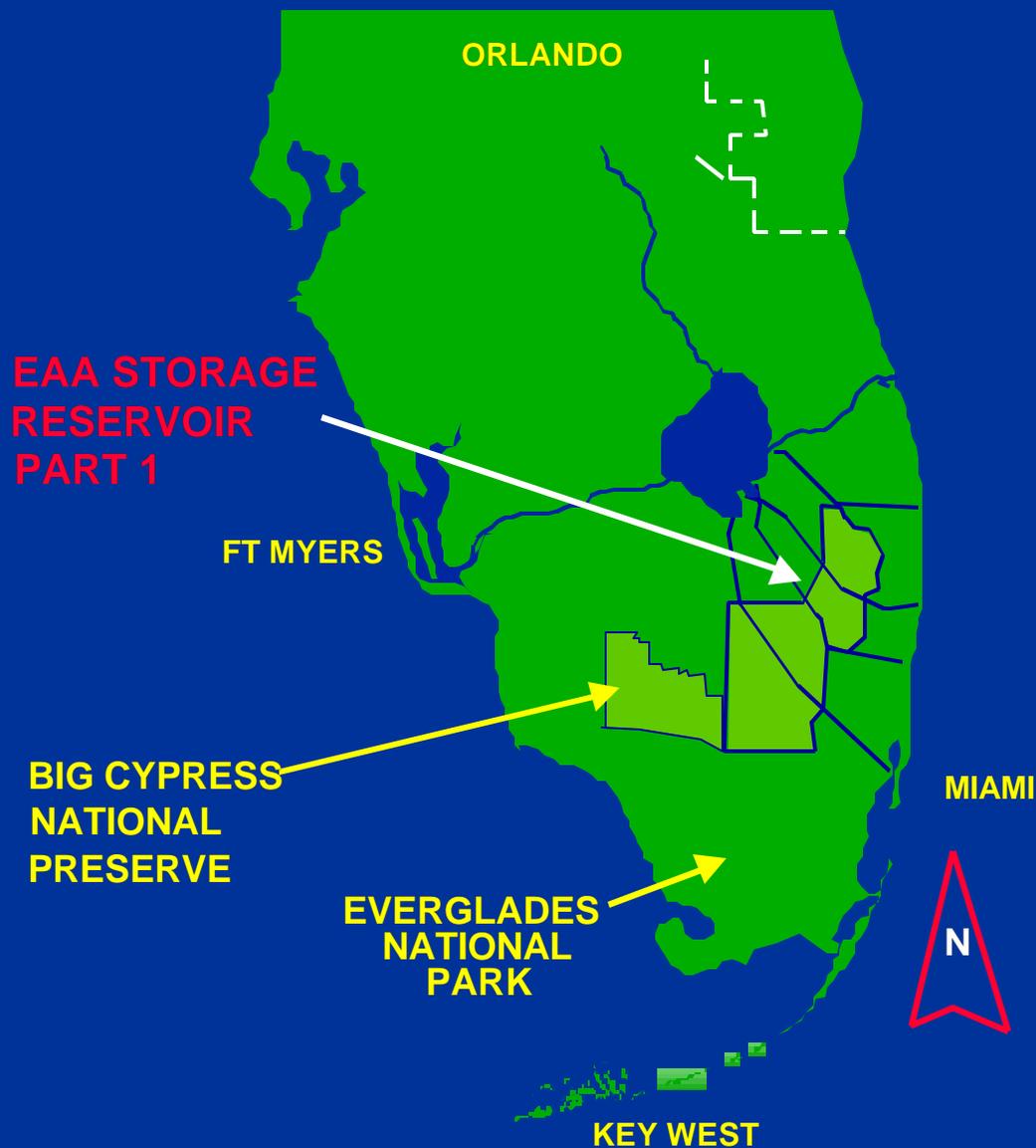


EAA STORAGE RESERVOIR PART 1



**US Army Corps
of Engineers.**

- **300,000 ac-ft reservoir**
- **Store EAA runoff and Lake Okeechobee releases**
- **SFWMD proposes to proceed in 2 phases - Canal improvements, then reservoir**
- **Estimated Cost - \$233 million**
- **Status - PMP Complete Aug 01**





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WCA DECOMP - PHASE 1/ NORTH NEW RIVER

- Fill Miami Canal
- Improve NNR Canal for Water supply to Miami-Dade
- Remove eastern portion of L-29
- Modify L-67A & L-67C
- Estimated Cost - \$61 million
- Status - PMP Started

WCA DECOMP - P1
NORTH NEW
RIVER

BIG CYPRESS
NATIONAL
PRESERVE

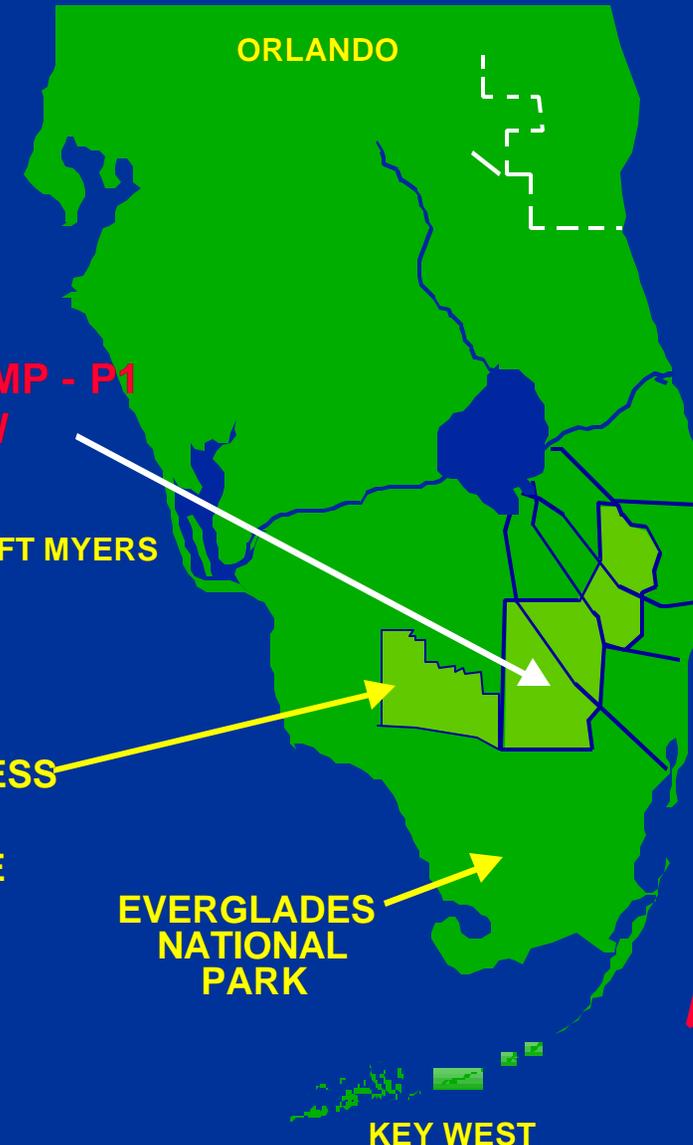
EVERGLADES
NATIONAL
PARK

FT MYERS

ORLANDO

MIAMI

KEY WEST



SOUTHERN GOLDEN GATES ESTATES



**US Army Corps
of Engineers.**

- Land acquisition and restoration of 55,000 acres
- Environmental benefits to lower west coast area from restoration of hydroperiods and natural flow patterns through removal of roadways and canals
- Estimated Cost - \$94 million
- Status - PMP Complete
March 01

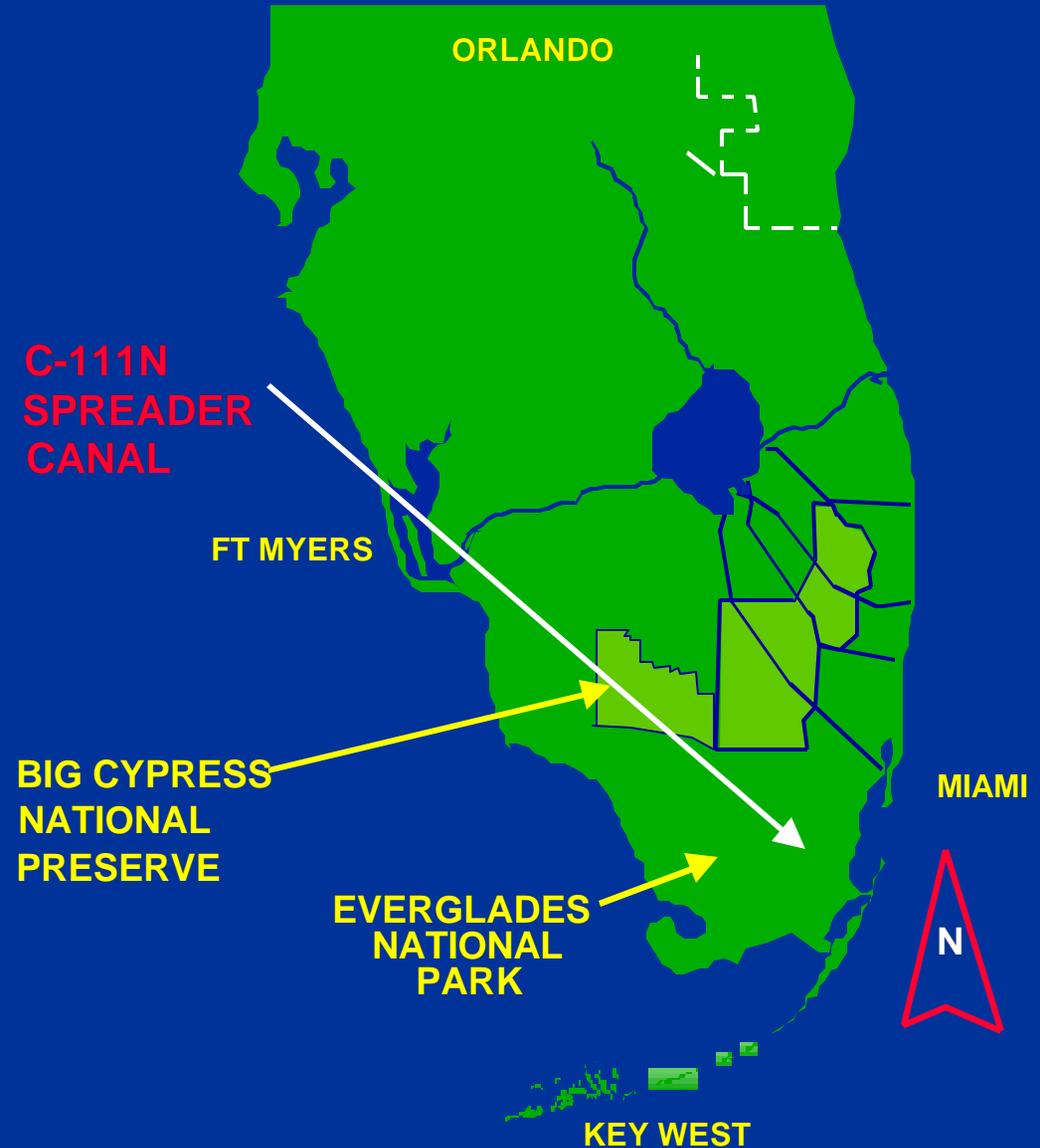


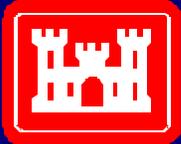


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of Engineers.**

C-111N SPREADER CANAL

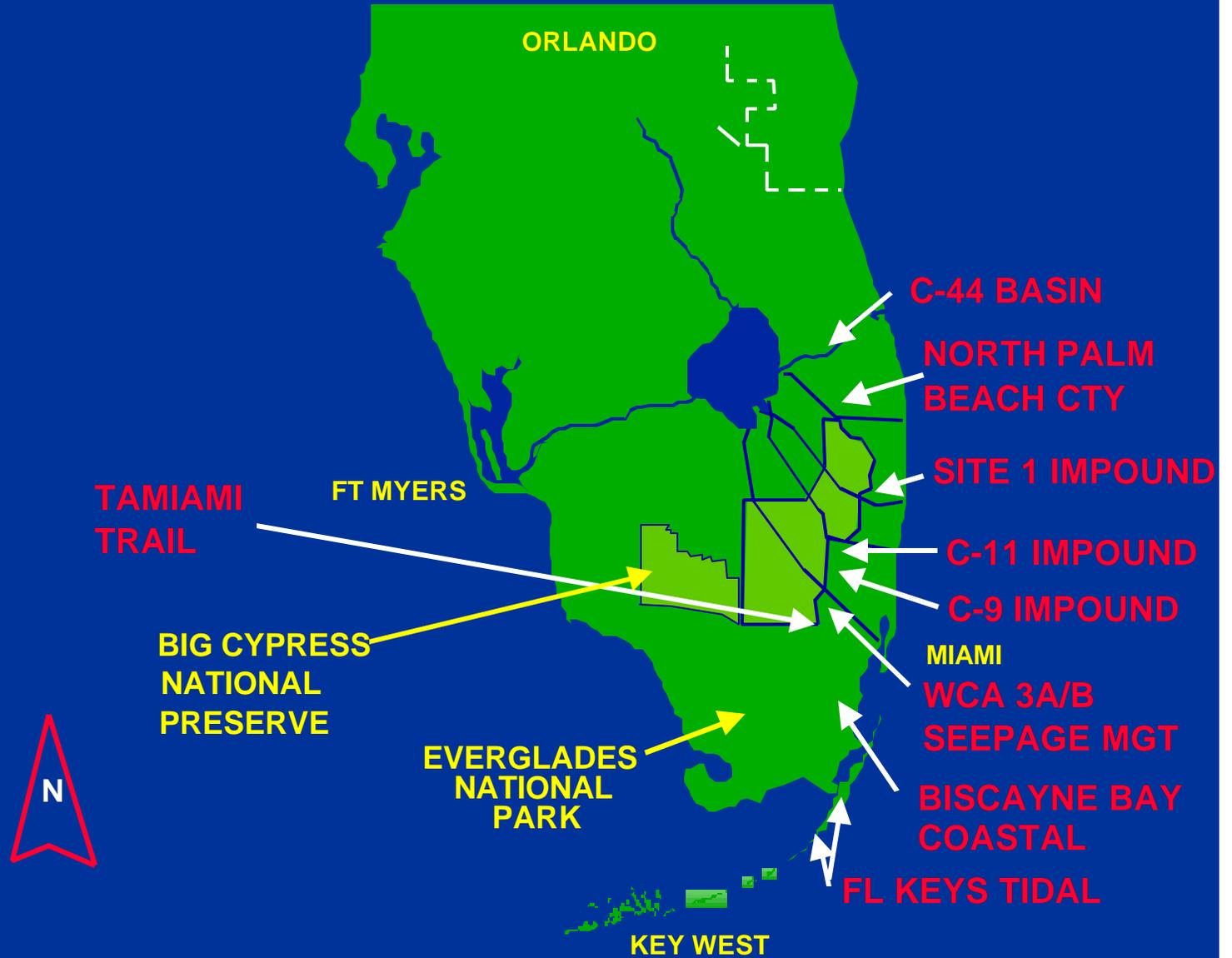
- **New Canal under US 1 and Card Sound Road to improve hydroperiod in Model Lands**
- **Estimated Cost - \$94 million**
- **Status - PMP Started**





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OTHER PROJECTS





**US Army Corps
of Engineers.**

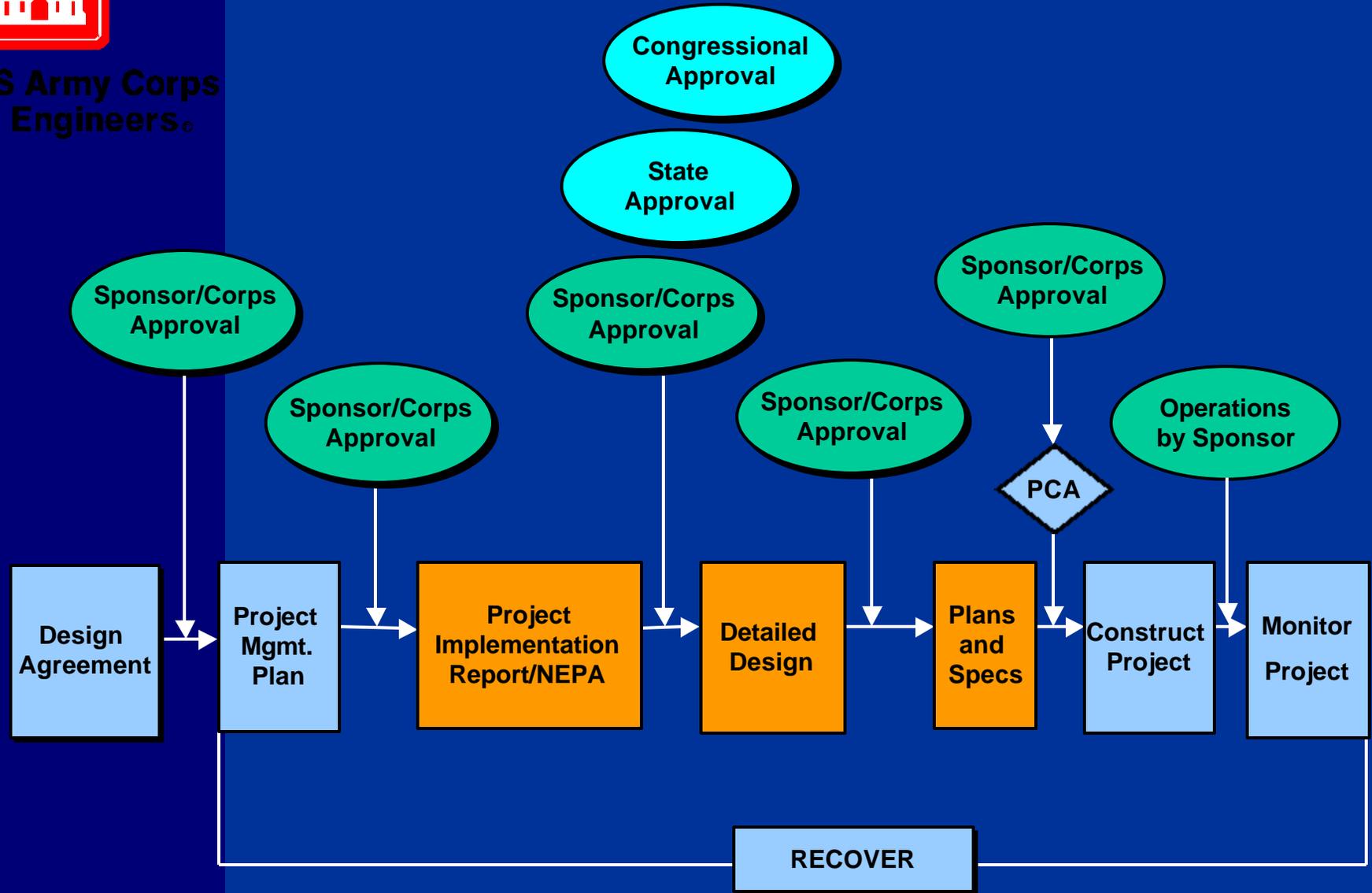
FEASIBILITY STUDIES

- 1. Water Preserve Areas - Ongoing, complete Sep 01**
- 2. Indian River Lagoon - Ongoing, complete Jan 02**
- 3. Comprehensive Water Quality - Developing Scope**
- 4. Florida Bay/Florida Keys - Initial meetings held, scope being prepared**
- 5. Southwest Florida - Ongoing, complete Jan 05**



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CERP PROJECT PROCESS

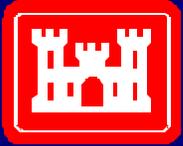




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of Engineers.**

PROJECT MANAGEMENT PLAN PROCESS

- 1. Assemble Project Delivery Team**
- 2. Initial Stakeholder Scoping Meeting**
- 3. Prepare Draft PMP**
- 4. Public Workshop**
- 5. Final Review and Approval by Sponsor and Corps**
- 6. Time frame for preparation 4-6 months**
- 7. PIR Initiated after PMP Approved**



**US Army Corps
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PROGRAM LEVEL ACTIVITIES

Mgt Plan Complete

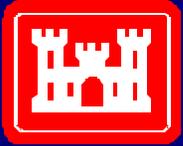
+ Public Outreach and Involvement	May 01
+ Socioeconomic and Environmental Justice	May 01
+ Geodetic Surveys	Mar 01
+ Program Controls	Jan 01
+ Real Estate Management Plan	May 01
+ Data Management Plan	May 01
+ Regional ASR Plan	TBD
+ RECOVER	Apr 01



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OVERALL CERP STATUS

- + WRDA 2000 signed by President - Dec 11**
- + Developing plans for meeting requirements of WRDA 2000**
- + 12 Projects initiated with PMP started and/or requests for PDT participants**
- + Program level management plans under development with SFWMD**
- + Implementation Plan Workshop on 13 February - West Palm Beach**



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WRDA 2000

Assurance of Project Benefits

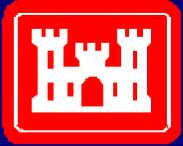
- **Agreement required between President and Governor regarding use of water made available by project**
- **Programmatic Regulations, developed within 2 years, to establish a process to ensure goals and purposes of Plan are achieved**
- **Project Specific Assurances are required regarding development process for PIR's, PCA's, and Operating Manuals**



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Assurance of Project Benefits Cont'd

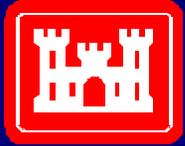
- **Savings Clause to ensure no elimination or transfer of existing water uses until new source available, to maintain flood protection, and to have no effect on Tribal Compact**



**US Army Corps
of Engineers.**

Dispute Resolution

- **Preparation of agreement between Corps and State within 180 days**
- **Establish mechanism for timely and efficient resolution of disputes**
- **Preference for resolution of disputes between Jacksonville District and SFWMD**
- **Time frames and steps to elevate disputes**
- **Final resolution within 180 days process initiated**



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Independent Scientific Review

- **Establish independent scientific review panel**
- **Panel to produce biennial report to Congress**



**US Army Corps
of Engineers.**

Outreach and Assistance

- **Ensure that opportunities are provided for small businesses owned by socially and economically disadvantaged individuals to participate**
- **Ensure that impacts on socially and economically disadvantaged individuals are considered and provided opportunity to review and comment on implementation.**
- **Ensure that public outreach and educational opportunities are provided**

Other Provisions



**US Army Corps
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- **Progress reports to Congress every 5 years**
- **Report on Miami-Dade ASR Project within 180 days**
- **Full disclosure of proposed funding from all sources for Everglades Restoration as well as request for Corps funding**



**US Army Corps
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QUESTIONS

