

C-43 Basin Storage Reservoir, Phase 1

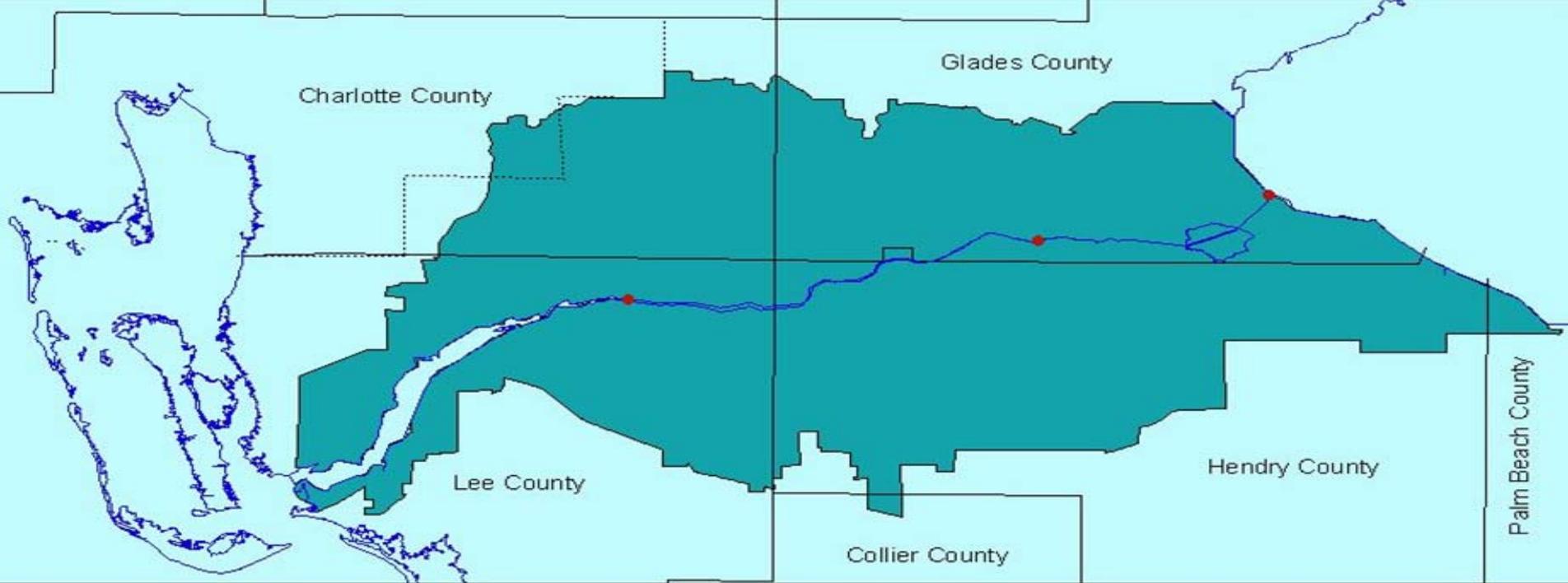
Project Managers:

SFWMD – Janet Starnes

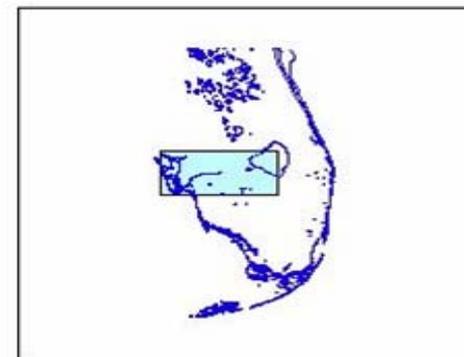
USACE – Beth Marlowe



sfwmd.gov



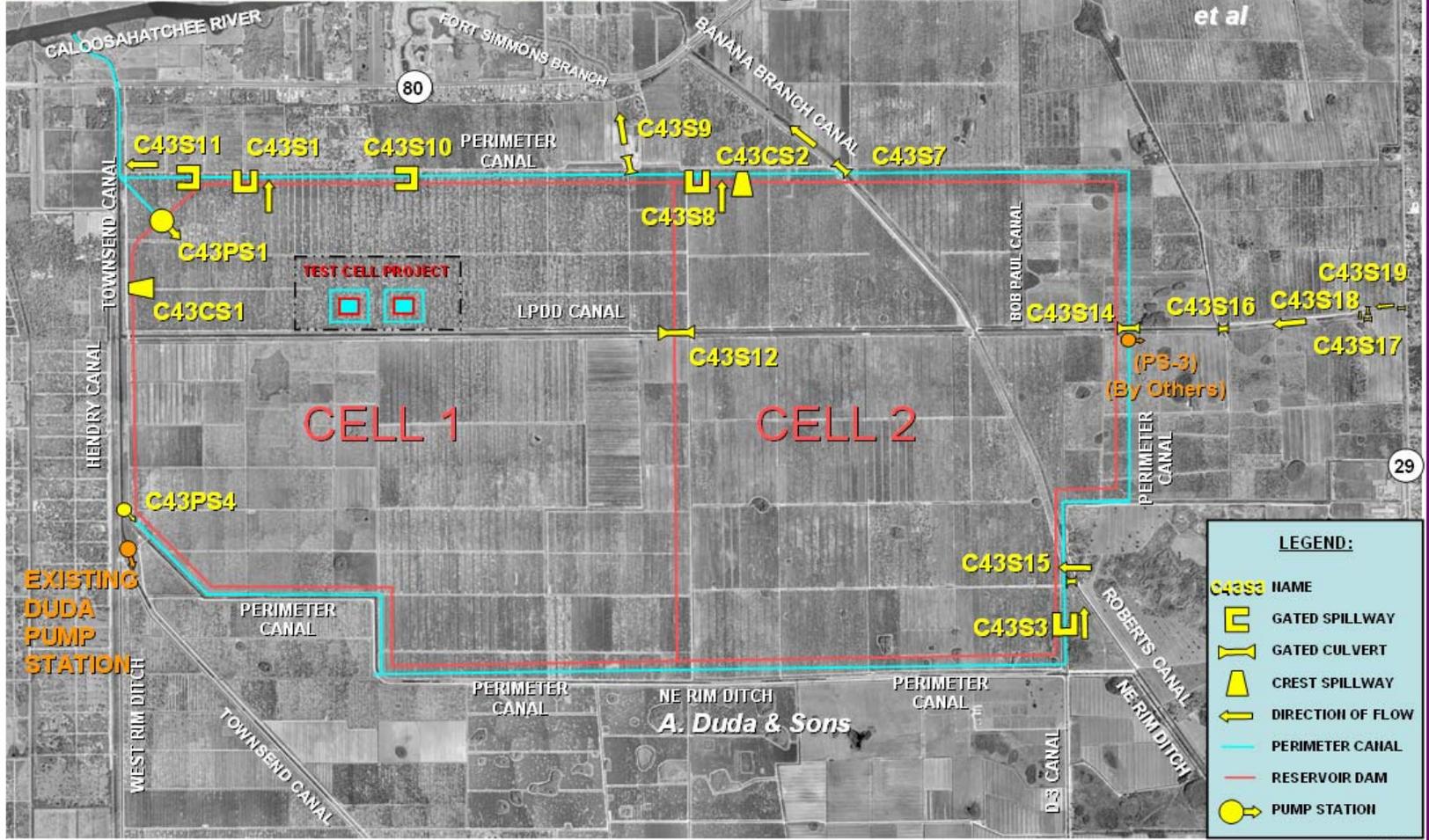
Caloosahatchee Basin



C-43 WEST STORAGE RESERVOIR PRELIMINARY PLAN

Stanley Consultants Inc.

JUNE 30, 2006



LEGEND:

C43S#	NAME
[Square symbol]	GATED SPILLWAY
[Trapezoid symbol]	GATED CULVERT
[Triangle symbol]	CREST SPILLWAY
[Arrow symbol]	DIRECTION OF FLOW
[Cyan line]	PERIMETER CANAL
[Red line]	RESERVOIR DAM
[Circle with arrow symbol]	PUMP STATION

Project Objectives

Improve Health of Caloosahatchee River and Estuary

- Improve water deliveries to the estuary
 - Increase dry season flows
 - Reduce wet season flows
- Restore downstream salinity levels that are suitable for a healthy ecosystem that promotes:
 - Natural habitat
 - Increased fish and wildlife
 - Biological diversity
- Any additional water could supply urban & ag users

Final Array of Alternatives

- 1) No-Action (Future-Without Project)
- 2) 100,000-acre-foot reservoir with Dam Height = 27 feet
1,500 cubic feet per second pumps
- 3b) 170,000 acre-foot reservoir with Dam Height = 34 feet
1,500 cubic feet per second pumps
- 3c) 170,000 acre-foot reservoir with Dam 34 feet
3,800 cubic feet per second pumps
- 4) 220,000 acre-foot reservoir with Dam Height = 34 feet
3,800 cfs pumps

Alternative Cost Comparison

ALTERNATIVES	TOTAL INITIAL COST*	Average Annual Cost
	No Action	N/A
Alternative 1		
Alternative 2 (100,000 ac-ft - 1500 cfs)	\$407,707,000	\$28,965,000
Alternative 3b (170,000 ac-ft - 1500 cfs)	\$446,460,000	\$31,258,000
Alternative 3c (170,000 ac-ft - 3800 cfs)	\$501,807,000	\$36,667,000
Alternative 4 (220,000 ac-ft - 3800 cfs)	\$611,907,000	\$43,856,000

* Costs coordinated with A8 Design and include construction; lands and damages; Planning Engineering and Design; and Construction Management

Project Cost

- **Yellow Book** **\$446.2M**
- **C-43 Project Implementation Report**
 - **Alternative 2** **\$407.7M**
 - **Alternative 3B** **\$446.5M**
 - **Alternative 3C** **\$501.8M**
 - **Alternative 4** **\$611.9M**

Alternative 3B meets objectives and is cost effective.

Major Milestones

- *Complete Draft PIR/EIS for C-43 BSR Part 1, Phase 1* 13 April 07
- *C-43 BSR Part 1, Phase 1 Final PIR MSC Notice* 7 July 07
- Complete 90% P&S under Acceler8 Aug 07
- Obtain FDEP 1502 permit Oct 07
- Obtain 404 Permit Nov 07
- Initiate Construction under Acceler8
 - Clearing and Grubbing Jul 07
 - Reservoir Construction Feb 08

- *Blue = PIR schedule* *White = Acceler8 Schedule*

Questions?