

Project Name: C&SF: CERP Caloosahatchee River (C-43) West Basin Storage Reservoir and Caloosahatchee Watershed (D P1)
[F/k/a C-43 Basin Storage Reservoir – Part 1; currently 2 PIRs: Caloosahatchee River (C-43) West Basin Storage Reservoir (PIR #1) and Caloosahatchee Watershed (PIR #2)]

Project ID: 1109 (CERP Project WBS # 04)

Lead Agency: USACE / SFWMD

Authority: Not authorized

Funding Source: Federal/State

Strategic Plan Goal(s) Addressed: 1-A.1

Measurable Output(s): 170,000 acre-feet storage

April 1999 (Restudy) Project Synopsis: Excess runoff from the C-43 Basin and Lake Okeechobee flood control discharges will be pumped into the initially proposed above-ground reservoir(s) with a total storage capacity of approximately 160,000 acre-feet. The initial design of the reservoir(s) assumed 20,000 acres (water levels fluctuating up to 8 feet above grade). Water from the reservoir will be injected into aquifer storage and recovery well field with a capacity of approximately 220 million gallons per day and associated pre- and post- water quality treatment located in the C-43 Basin in Hendry, Glades, or Lee Counties for long-term storage. Estuarine demands not met by basin runoff and the aquifer storage and recovery wells will be met by Lake Okeechobee as long as the lake stage is above a pre-determined level.

Current Project Synopsis: As part of the Corps planning process, alternative plans were reviewed. The Caloosahatchee (C-43) Basin Storage Reservoir and Aquifer Storage and Recovery (ASR) project (originally component D in the Yellow Book) have been divided into two projects: The latter portion is now a separate project designated D P2 (part 2), previously USACE WBS #5. In 2007, D P1 (part 1), represented here, was further subdivided into two distinct Project Implementation Reports (PIRs):

- (1) **Caloosahatchee River (C-43) West Basin Storage Reservoir (WBSR)** will capture excess C-43 Basin runoff and regulatory releases from Lake Okeechobee and release water to the Caloosahatchee Estuary when needed Helping to restore the Caloosahatchee estuarine and riverine ecosystems by improving hydrologic conditions with improved water delivery and by reducing water quality by reducing salinity and nutrient impacts of runoff. To achieve this goal, the team identified two key objectives: (1) provide additional water to the estuary to augment low or no flows over Structure S-79 during the dry season/dry periods, and (2) reduce damaging peak flows to the estuary by capturing and storing excess basin run-off and Lake Okeechobee releases during high flow conditions.
- (2) **Caloosahatchee Watershed** will address further water storage needs for the Caloosahatchee Estuary as well as water quality, water management, and ecological restoration challenges; while also ensuring that agricultural water supply requirements and flood attenuation are not negatively impacted. The project will build on the state's Caloosahatchee River Watershed Protection River Plan (January 2009). Goals include: (1) Identify, evaluate and implement methods and/or means of further decreasing dependency upon water releases from Lake Okeechobee, without disrupting water supply needs in the basin; (2) Identify, evaluate and implement methods and/or means to restore the Estuary by storing and releasing water flows in a more natural manner; and (3) Identify, evaluate and implement methods and/or means to enhance basin water quality.

Current Status:

- (1) *Caloosahatchee River (C-43) West Basin Storage Reservoir (WBSR) 2007 PIR* addresses formulation, evaluation, and justification of a separable reservoir project in the lower basin. Following the *Memorandum for Record Land Valuation and Crediting Policy - CERP Projects* (July 2009), the PIR was updated with an addendum based on the latest policy decision and a re-assessment of alternative cost estimates, including the real estate re-evaluation and was finalized by HQ. A Chief's Report was completed in March 2010 with a Record of Decision and submission to Congress anticipated in October of 2010. The construction date would be dependent upon Congressional authorization (generally in a WRDA) and appropriation funding.

As a state expedited project, the SFWMD designed a reservoir at the Berry Groves site, and final plans and specifications were completed in 2008. The plan includes a 170,000 acre-foot storage reservoir with a 1500 cfs pump capacity. State funding has been on hold pending outcome of the proposed state River of Grass land acquisition of sugarcane farmlands near Lake Okeechobee begun mid-2008. Conversion of Plans and Specs for USACE implementation could take 12 to 18 months.

- (2) *Caloosahatchee Watershed* draft Project Management Plan (PMP) was sent to the SFWMD in November 2008 for comment. However, cost estimates and a schedule associated with the modeling were in flux with policy questions remaining from the overall C-43 WBSR PIR split. PMP adjustments include narrowing scope to river and estuary restoration, addressing the savings clause, the modeling plan and identification of the base conditions. Internal review, local sponsor review and full interagency PDT involvement is ongoing. A final PMP is expected during 3rd quarter of 2010. Initiation of the PIR is delayed until FY2011.

Est. Cost:

Caloosahatchee River (C-43) West Basin Storage Reservoir:
 \$ 570,484,000

Caloosahatchee Watershed:
 \$ 262,000

Project Schedule:

Caloosahatchee River (C-43) West Basin Storage Reservoir:
 2012 Start construction.
 2016 Storage reservoir construction completed.

Caloosahatchee Watershed:
 TBD

Detailed Project Budget Information (rounded):

Caloosahatchee River (C-43) West Basin Storage Reservoir (DP1)	Expenditures Thru FY 2009
USACE	\$8,031,808
SFWMD	\$2,965,570
Total	\$10,997,378

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Caloosahatchee Watershed	Expenditures Thru FY 2009
USACE	\$262,427
SFWMD	\$0
Total	\$262,427

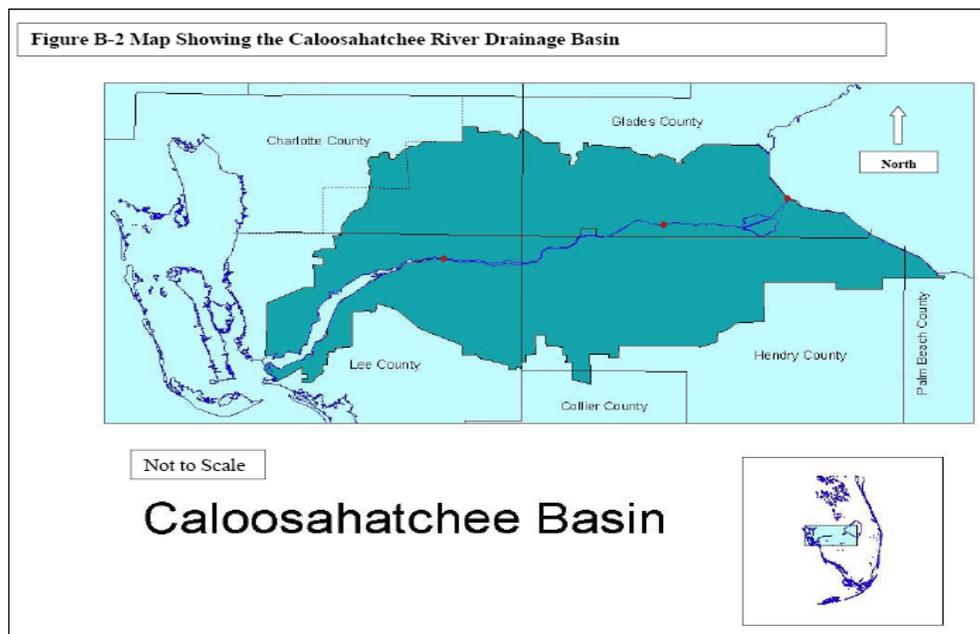
Hyperlinks: http://www.evergladesplan.org/pm/projects/proj_04_c43_basin_1.aspx

Contact: Steve Baisden, Project Manager, Everglades Division, USACE
 (904) 232-1794, Stephen.A.Baisden@usace.army.mil

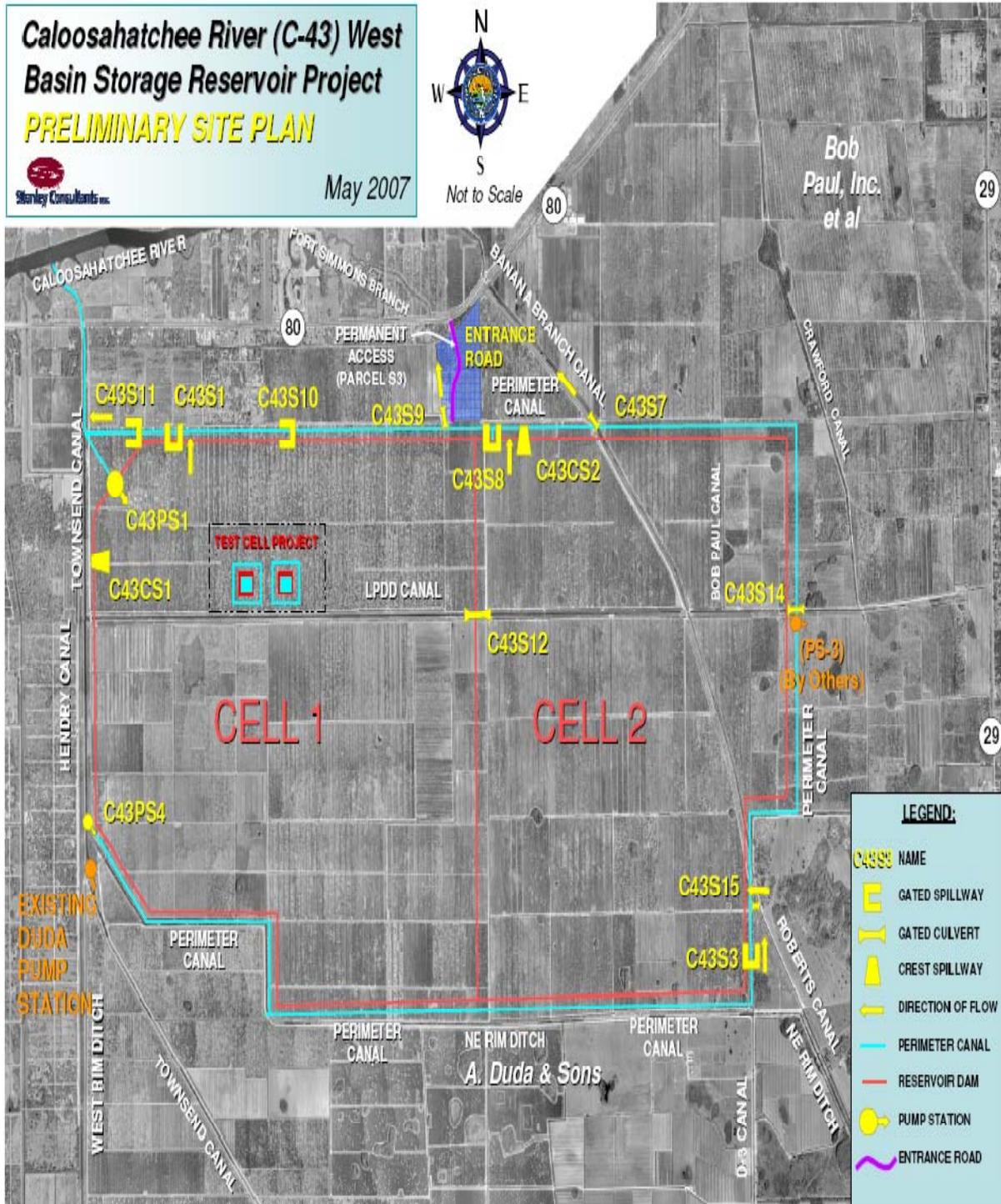
Janet Starnes, Project Manager, SFWMD
 (239) 338-2929 x 7735, jstarne@sfwmd.gov

Source: Original project description summarized from the *Central and Southern Florida Project Comprehensive Review Study (Restudy) (1999)*. Cost estimate information is updated to reflect current price levels in October 2009 dollars. Actual expenditures include all federal expenditures through FY09 (Sept, 2009) and sponsor verified and recorded in kind credit through 4th quarter FY07. Schedule is updated based on the approved *Integrated Delivery Schedule Through 2020* (February 10, 2010).

Additional Information:



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