

Project Name: C&SF: CERP Broward County Water Preserve Areas (R) (Q) (O)
[A/k/a Broward County WPAs [Broward County WPA - C-9 Impoundment (R) and Western C-11 Diversion Impoundment and Canal (Q) and Water Conservation Areas 3A and 3B Levee Seepage Management (O)]]

Project ID: 1116 (CERP Project WBS # 45)

Lead Agency: USACE / SFWMD

Authority: WRDA 2000 (Initially Authorized Projects -3); pending PIR approval and submission to Congress

Funding Source: Federal/State

Strategic Plan Goal(s) Addressed: Primary: 1-A.1 Secondary: 2-A.3

Measurable Output(s):

- 11,648 acre-feet total storage (2,808 acres of impoundment)
- 4,633 acres of natural area

April 1999 (Restudy) Project Synopsis: The original concept includes canals, levees, water control structures, and a stormwater treatment area/impoundment with a total storage capacity of 6,400 acre-feet located in western Broward County. The initial design of a stormwater treatment area/impoundment assumed 1,600 acres (water level fluctuating up to 4 feet above grade). Detailed design of this feature will address appropriate pollution load reduction targets necessary to protect receiving waters.

Purposes of the features (O) and (Q) are to divert and treat runoff from the western C-11 Basin presently discharged into Water Conservation Area 3A, control seepage from Water Conservation Areas 3A and 3B by improving groundwater elevations, and providing flood protection for the western C-11 Basin. Runoff in the western C-11 Canal Basin that was previously back-pumped into Water Conservation Area 3A through the S-9 pump station will be diverted into the C-11 Impoundment and then into either the North Lake Belt Storage Area, the C-9 Stormwater Treatment Area/Impoundment, or Water Conservation Area 3A after treatment, as applicable.

The initial design of the C-9 stormwater treatment area/impoundment (R) assumed 2,500 acres (water level fluctuating up to 4 feet above grade). Purposes of the C-9 feature are to provide treatment of runoff stored in the North Lake Belt Storage Area, enhance the groundwater recharge within the basin, provide seepage control for Water Conservation Area 3 and buffer areas to the west, and to provide flood protection for western C-9 Basin.

Current Project Synopsis: As part of the Corps planning process, several alternative plans were reviewed. The Tentatively Selected Plan was identified in January 2005. This project contains three (3) of the ten Initially Authorized Projects identified in the Water Resources Development Act (WRDA) of 2000: WCA 3A/3B Levee Seepage Management (Q), C-11 Impoundment (O), and C-9 Impoundment (R). The impoundment areas will 1) aid in reducing seepage; 2) provide groundwater recharge; 3) provide adequate water supply to urban areas; and 4) prevent saltwater intrusion. The final size, depth and configuration of these facilities were determined through more detailed planning and design completed as a part of the *Draft Water Preserve Areas Feasibility Study* and as part of the final PIR.

The project has been refined in the Final Project Implementation Report (PIR) signed by the District Engineer in June 2007. During the planning process, the stormwater treatment area (STA) component of the project was dropped.

- **WCA 3A/3B Levee Seepage Management system** will focus on seepage reduction by allowing higher water levels in the L-33 and L-37 borrows.

- **C-11 Impoundment** will direct runoff from the western C-11 drainage basin into an impoundment in lieu of pumping untreated runoff via the S-9 pump station into the WCA 3A. When water is not available in the impoundment to perform these functions, S-381 will be opened to allow seepage water to recharge the basin and prevent excessive dry outs. In addition, seepage will be collected and returned to the impoundment area. The western C-11 Diversion Impoundment and Canal together with the Water Conservation Areas 3A and 3B Levee Seepage Management feature include 4,633 acres of natural area, canals, levees, water control structures, and an impoundment with a total storage capacity of 4,592 acre-feet located in western Broward County (with an initial design that assumes 1,068 acres and water levels fluctuating up to 4 feet above grade).
- **C-9 Impoundment** will include canals, levees, water control structures and an impoundment having a total capacity of 7,056 acre-feet located in the western C-9 Basin in Broward County (initial design assumes 1,641 acres and water level fluctuating up to 4.3 feet above grade) to pump runoff from the western C-9 drainage basin and diverted water from the western C-11 basin into the impoundment and assist in reducing seepage from the WCA 3A/3B Levee Seepage Management.

Current Status: The PIR and design of project features was suspended pending resolution of a land crediting policy change requested by the SFWMD that has since been resolved. The PIR is being updated with changes that the Master Agreement involves; as well as cost updates associated with the recent real estate policy change, engineering changes to the interiors of the reservoirs related to removing the wave steps, and any/all construction cost changes. Once these changes are incorporated, an Independent External Peer Review will be scheduled and conducted prior to submitting this project for WRDA consideration.

Est. Cost: \$ 485,543,000

Project Schedule:

2012	Construction begins C-11 Impoundment
2015	Construction completed C-11 Impoundment
2016	Construction begins C-9 Impoundment
2019	Construction completed C-9 Impoundment
2020	Construction begins WCA 3A&3B Levee/S-356

Detailed Project Budget Information (rounded):

Broward County WPA	Expenditures Thru 2009	FY
USACE	\$9,939,824	
SFWMD	\$1,029,142	
Total	\$10,968,966	

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_45_broward_wpa.cfm

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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. Current synopsis is summarized from information contained in the *Final Project Implementation Report and Environmental Impact Statement (2007)*. Schedule is updated based on the approved *Integrated Delivery Schedule Through 2020* (February 10, 2010).

**Additional
Information:**



