

Program Name Infrastructure
Project Name: **C&SF: CERP C-111 Spreader Canal (WW)**
C-111 Spreader Canal - Western Project (PIR 1) and Eastern Project (PIR 2)
Project ID: 2310 (CERP Project WBS # 29)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (*Initially Authorized Project*), WRRDA 2014 (*Western Project*)
Funding Source: Federal/State

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

Measurable Output(s): Increased Flows to Florida Bay via Taylor Slough – acreage TBD
590-acre Frog Pond and Aerojet Canal detention areas (with pump stations)

April 1999 (Restudy) Project Synopsis: The purpose of the project is to reduce wet season flows in C-111, improve deliveries to Model Lands and Southern Glades and decrease potential flood risk in the lower south Miami-Dade area.

This is to be accomplished by constructing a spreader canal, to evenly distribute water currently lost to tide via the existing canal. Features include construction, removal or modifications of: levees, canals, pump stations, water control structures, and stormwater treatment area. The feature enhances the C&SF C-111 (South Dade) project initial design that pumps water from the C-111 Canals into a retention/detention zone. Pump station S332E will be enlarged, the canal extended under U.S. Highway 1 and Card Sound Road, and the southern reach of the C-111 canal will be filled in and structures S-18C and S-197 will be removed.

Current Project Synopsis: C-111 N Spreader Canal (WW) is one of the initially authorized projects under WRDA 2000. Past dredging of the C-111 canal redirected water flows to the east, reducing flow through Taylor Slough into the northern Florida Bay impacting fisheries and ecology. A Project Management Plan (PMP) aimed to reduce water loss through the canal system and restore flows was initially approved in March 2002. As part of the Corps planning process, alternative plans were reviewed and this project will be implemented via two Project Implementation Reports (Western PIR and Eastern PIR).

Western PIR – The Western PIR plan includes a 590-acre Frog Pond detention area with a 225 cfs pump station, and an Aerojet Canal detention area with a 225 cfs pump station. Together these features will create a mound of groundwater to the south and west, which will prevent groundwater seepage out of Everglades National Park (ENP). Preventing seepage will improve the quantity, timing and distribution of water delivered to Florida Bay via Taylor Slough -- returning coastal zone salinity levels in western Florida Bay to levels as close as possible to pre-drainage scenario model runs by restoring upstream water levels in eastern Everglades National Park. Hydroperiods and hydroperiods within wetlands of the Southern Glades and Model Lands will be improved by construction of a new water control structure in the lower C-111 Canal, incremental operational changes at existing structure S-18C, changes in operations at the existing S-20 structure, construction of a plug at existing structure S-20A, and installation of ten earthen plugs in the C-110 Canal. This will also support historical vegetation patterns.

The Tentatively Selected Plan (TSP) for PIR 1 was recommended in October 2007. An Alternative Formulation Briefing was held in April 2008 and a Civil Works Review Board was held in December 2009. The Final PIR/EIS was published February 2011. A Chief's Report was signed on January 30, 2012. A Signed Record of Decision (ROD) was signed in September 2012. The project was authorized in WRRDA 2014.

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Eastern PIR – The Eastern PIR project will replace existing portions of the lower C-111 canal with a spreader canal to enhance sheet flow to Florida Bay, and help augment restoration efforts within the Southern Glades and Model Lands.

Current Status: In February 2012, SFWMD completed construction of the C-111 Spreader Canal Western Project as part of its state-expedited program. The C-111 Spreader Canal Western Project includes the Frog Pond Detention Area, Aerojet Canal features, plugs in the C-110, a plug at S-20A, and operational changes at S-18C and S-20. A new structure in the lower C-111 Canal is scheduled for construction in the future.

Pending a revised takings analysis for operations of features constructed by the SFWMD, a Project Partnership is scheduled to be executed in 2018 which will make the project eligible for Federal funding during the appropriations process.

Est. Cost: \$ 210,339,000

Project Schedule:

2010	Two year Design Test begun.
2012	Design Test disassembled.
2010	Western, construction begun
2012	Western, construction completed.
TBD	Eastern PIR

Detailed Project Budget Information (rounded):

C-111 Spreader Canal	Obligations Thru FY 2016
USACE	\$12,467,000
SFWMD	\$13,861,000
Total	\$26,328,000

Contact: Michael J. Drog, Programs & Project Management Division, USACE
michael.j.drog@usace.army.mil

Brenda Mills, Project Manager, SFWMD
bmills@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 2015 dollars. Actual expenditures include all federal expenditures through FY15 (Sept, 2015) and sponsor verified and approved in kind credit through 4th quarter FY11. Other information is summarized from the PIR/EIS for the Western PIR published in the Federal Register on April 24, 2009.

Additional Information:

