

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)
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 S-332E 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 signed Chief's Report is scheduled for late FY11.

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

Current Status: The Draft integrated Project Implementation Report and Draft Environmental Impact Statement (DPIR/DEIS) for the Western PIR was published in the Federal Register on April 24, 2009. Library access and public comments or meetings took place thru June 23, 2009. The SFWMD designated the ‘Western PIR’ as a state expedited project and a 404 permit was issued to the SFWMD on October 14, 2009. Real estate updates, based on the Master Agreement and a non-Federal letter of support, were addressed. A Civil Works Review Board was held December 15, 2009, in Washington, D.C. and the Board approved the Final PIR for State and Agency review, contingent on resolving agricultural chemical issues associated with project lands. The Final PIR was published for State and Agency review in February 2011. Agricultural chemical issues associated with project lands were resolved by Assistant Secretary of the Army for Civil Works policy guidance dated September 14, 2011. The Chief’s report for the Western PIR was executed January 30, 2012. A Signed Record of Decision (ROD) was signed in September 2012. The project was authorized in WRRDA 2014. The PPA is scheduled to be approved and executed in FY15.

Along with the Western PIR efforts, an Integrated Design Documentation Report/Environmental Assessment (DDR/EA) was prepared for the C-111 Spreader Canal *Design Test*. This report received public comments between August and September, 2008. The design test survey and hydraulic design were completed and the scope of work for the test was completed in January, 2009 with a final document in July 2009. The contract for the design test was awarded and operation of the 2-year test began February 2010. The test consists of operating a small scale spreader canal and monitoring the effects on groundwater and surface water flows. Data will be used in the development and analysis of alternatives for the Eastern PIR and help to determine the location of that PIR’s full-size spreader canal, minimizing impacts to private lands, and maximizing restoration results. Operation of the Design Test was concluded in September 2011 and a Technical Data Report was completed.

Est. Cost: \$ 184,131,501

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):

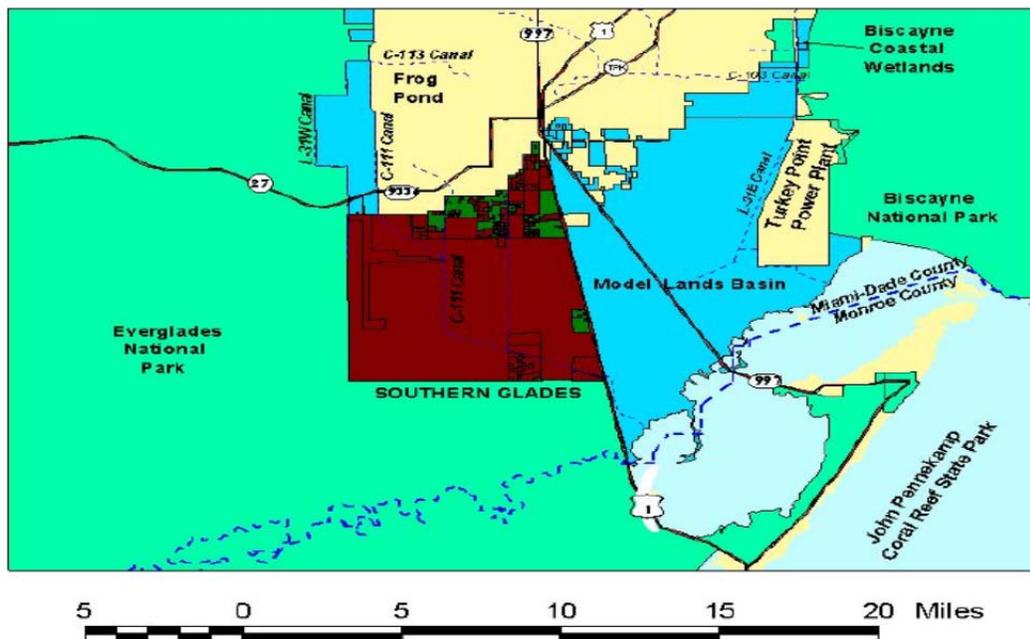
C-111 Spreader Canal	Obligations Thru FY 2013
USACE	\$12,437,017
SFWMD	\$13,860,722
Total	\$26,297,739

Hyperlinks: http://www.evergladesplan.org/pm/projects/proj_29_c111.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 2011 dollars. Actual expenditures include all federal expenditures through FY11 (Sept, 2011) 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:



Program Name: Infrastructure
Project Name: C&SF: CERP - C-111 Spreader Canal Western Project (WW)
Project ID: 2310A (CERP Project # WBS 29)
Lead Agency: SFWMD
Authority: Memorandum of Agreement Regarding Acceleration of the CERP
Funding Source: State

Strategic Plan Goal(s) Addressed: Primary: 1.B.1

Measurable Output(s): 3,200 acres of shallow detention; Water storage and hydrologic divide feature, pump station, spreader canal, freshwater wetland, flood protection, and recreation.

Project Synopsis: This SFWMD-expedited project provides for ecosystem restoration of freshwater wetlands by providing a hydrologic divide between Everglades National Park and developed areas in southern Miami-Dade County. Located in Miami-Dade County, this project consists of the design and construction of three essential components - Frog Pond Impoundment, Pump Stations S-199 and S-200, and the Aerojet Canal Extension including the installation of earthen plugs at C-110 and L-31E Canals to enhance sheetflow across the restored area. Project features include pump stations, canal extensions, conveyance canals, spreader canals, levees, and culverts.

Current Status: Construction of the Frog Pond Impoundment was completed in May 2011 and the Aerojet Canal Extension and Pump Stations S-199 and S-200 were completed on December 15, 2011. The project is currently in operation and monitoring is being conducted for ecological, water quality and hydrometeorological.

Total Estimated Project Cost: \$46,822,983

Scheduled Construction Start Date: Jan. 2010

Scheduled Project Completion Date: Dec. 2011

Actual Expenditures to date by SFWMD*:

	Thru 2007	2008	2009	2010*	2011 (as of 6/15/11)	2012 7/11- 6/12
SFWM D	\$ 4,360,259	\$1,802,382	\$2,646,028	\$17,018,735	\$10,024,159	\$3,094,880

* Updated to reflect actual expenditures as of end of fiscal year.

2013	Total
\$1,347,912	\$40,294,347

Real Estate Acquisition:**

Acres	Cost
33.000	\$10,175,057

*Credit for expedited work subject to inclusion in authorized Federal project.

**Amount estimated subject to credit once project is authorized and authorization has been given to credit work accomplished prior to signing of a PCA.

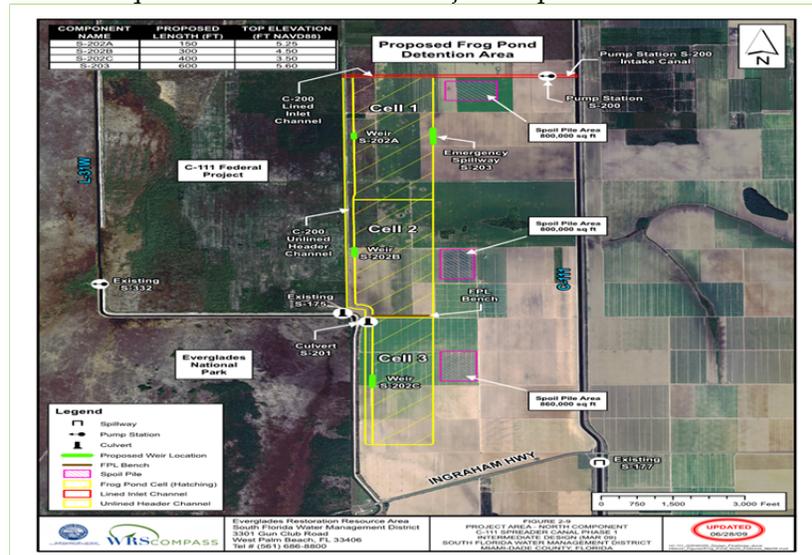
Hyperlink:

http://www.sfwmd.gov/portal/page/portal/xrepository/sfwmd_repository_pdf/jtf_s197.pdf

Contact: Bahram Charkhian



C-111 Spreader Canal Western Project Map



Frog Pond and Pump Station S-200
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Aerojet Canal Extension and Pump Station S-199 (four photos)



