

Project Name: C-43 Water Quality Treatment Area and Test Facility
Project ID: 1519
Lead Agency: South Florida Water Management District
Authority: Chapter 373, Florida Statutes
Funding Source: State Funds

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

Measurable Output(s): 1,200-acre Water Quality Treatment Area (WQTA) and Test Facility

Project Synopsis: In 2007, the Florida legislature enacted the Northern Everglades Initiative, which expands the Lake Okeechobee Protection Act to the entire Northern Everglades system, including the Lake Okeechobee watershed as well as the Caloosahatchee and St. Lucie rivers and estuaries. The South Florida Water Management District and Lee County agreed to develop a Water Quality Treatment Area project near the Caloosahatchee River in the C-43 Basin to address total nitrogen treatment, with a focus on organic nitrogen removal, as well as other incidental nutrient treatment of the Caloosahatchee River Basin water upstream of structure S-79. The immediate goal of the project is to investigate and test wetland-based strategies for reducing total nitrogen (TN) loads, total phosphorus (TP), and total suspended solids (TSS). The testing facility will be comprised of small scale experiments, also referred to as mesocosms, and larger test cells (1/2 to 1 acre in size) that can be used to test the scalability of different plant communities arranged in different configurations. The ultimate goal is to build a full scale WQTA at the current site. It is anticipated that the project will generate strategies that can be applied to estuaries throughout the SFWMD.

Current Status: Conceptual design of a test facility is ongoing and is expected to be completed by October 2012. Preliminary, intermediate, and final detailed design of the test facility is to be completed in FY13 followed by construction in FY14. The testing facility will be operated and tested for at least three (3) consecutive years with construction of the full scale WQTA sometime after that.

Total Estimated Project Cost: \$1.7M (test facility only)

Project Schedule: Start Date: September 2007
 Finish Date: September 2017 (test facility only)

	2011	2012	2013	2014	2015	2016	2017
Project Design		X	X	X			
Mesocosm Construction and Installation				X			
Mesocosm Operation and Testing				X	X	X	X
Test Cell Construction				X	X		
Test Cell Operation and Testing					X	X	X

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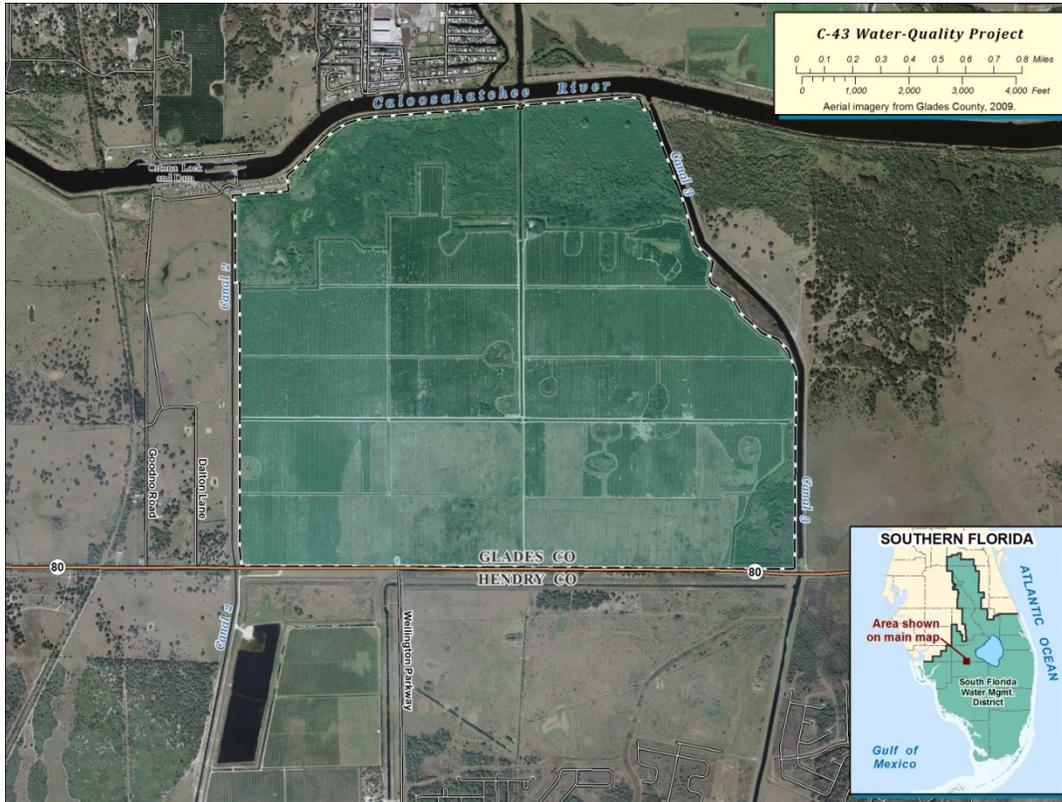
Detailed Project Budget Information

	2007	2008	2009	2010	2011	2012	Total
SFWMD	0	\$817	\$746,000	\$709,943	\$2,655	\$40,327	\$1,499,742

Hyperlink:

http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2011_sfer/v2/chapters/v2_ch2.pd

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The goal of this project is to investigate and test wetland-based strategies for reducing concentrations of total nitrogen and other constituents including total phosphorus.