

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 project is included in the Caloosahatchee River Watershed Protection Plan. It involves development of a testing facility to test and demonstrate wetland technologies that have the potential to effectively remove and/or reduce background TN loading from the facility's C-43 canal inflow and identify the range of hydrological loading rates per unit area to achieve optimal removal/reduction rates. 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: In late 2012, a conceptual design for a testing facility was completed which estimated the testing facility to take six years to complete design and testing. Preliminary, intermediate, and final detailed design of the test facility is contingent on funding. The District is also considering opportunities for other cost-effective nutrient removal options at the site.

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

Project Schedule: Start Date: September 2007
Finish Date: TBD

Detailed Project Budget Information

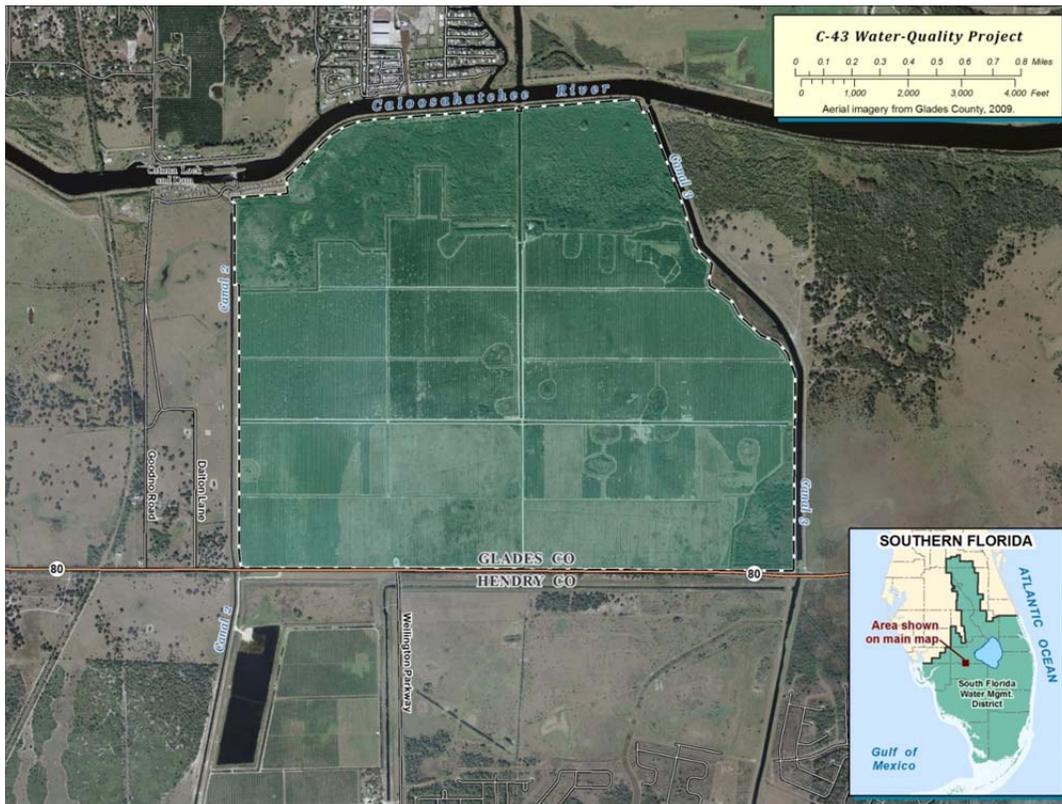
	2007	2008	2009	2010	2011	2012	2013*	2014*	Total
SFWMD	0	\$817	\$746,000	\$709,943	\$2,655	\$53,580	\$72,028	0	\$1,585,023

* Total and projected expenditures as of June 19, 2014 per SFWMD fiscal year (October 1st through September 30th)

Hyperlink:

http://my.sfwmd.gov/portal/page/portal/pg_grp_sfwmd_sfer/portlet_prevreport/2014_sfer/v1/chapters/v1_ch10.pdf

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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.