

City Council FY2010-2011 Water Resources/Water Quality Goals Accomplishments

City Council Meeting
November 1, 2011

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Department of Natural Resources



City Council FY2010-2011 Water Resources Goals

II. Strengthen the City's Partnerships to Sustain Estuary and Coastal Water Quality

1. Increase treatment of stormwater discharge into coastal waters

- On-island regulatory outreach to address nutrient loading from stormwater inputs ✓
- State-wide stormwater rule development
 - Rule development having economic impacts put on hold pursuant to Executive Order 11-01
- Caloosahatchee TMDL and BMAP development
 - TMDL adopted Sep. 2009, BMAP to be completed Jan. 2012
- Pursue funding for stormwater projects
 - Sanibel Bayous package plant restoration (USFWS grant \$25k)

✓ Indicates items staff will elaborate on at City Council Meeting

City Council FY2010-2011 Water Resources Goals

II. Strengthen the City's Partnerships to Sustain Estuary and Coastal Water Quality

2. Improve Water Management in South Florida

- Work to address Caloosahatchee inequities regarding high and low flow issues
 - Adaptive Protocols for Lake Okeechobee
 - Weekly Caloosahatchee Scientists call and Conditions Report
- Pursue implementation of distributed storage ✓
- Increase overall storage throughout the system ✓
- Hold SFWMD accountable on promise of providing 450,000 ac-ft of storage in the Lake Okeechobee watershed ✓
- River of Grass Project - move water south to rehydrate Everglades/reduce high flows to estuary
 - SFWMD Governing Board approved purchase of 26,800 ac on August 2010 and closed on purchase October 12, 2010 - with option to acquire additional 150k ac

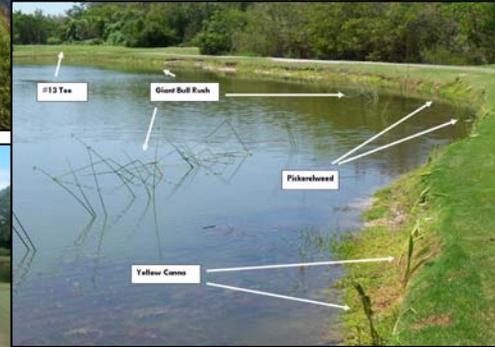
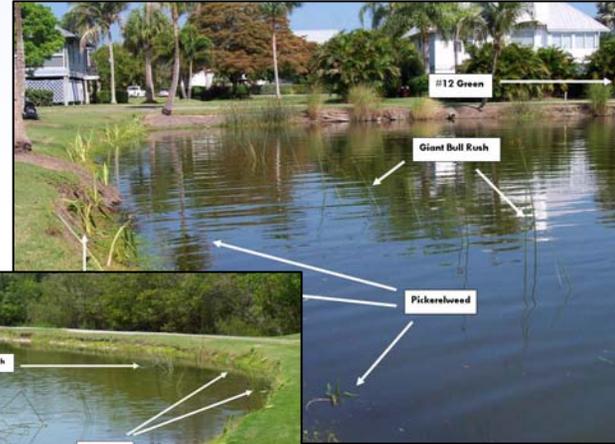
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City Council FY2010-2011 Water Resources Accomplishments

Local Accomplishments

- **Implementation of Golf Course Fertilizer and Lake Management Guidelines**
 - Developed annual report card for all golf courses
 - Planted >1,550 linear feet of shoreline aquatic vegetation
 - Dunes 1,000 LF (not all survived); Sanctuary 550+ LF; Beachview NR
 - Established >12,000 linear feet of shoreline buffers including plantings and *no-mow zones
 - Dunes 9,000+ LF*; Sanctuary 1,000 LF new plantings; Beachview 2,288 LF*
 - Implemented aquatic vegetation harvesting
 - Ceased mowing and herbicide application along lake banks
 - Annual WQ monitoring and trend analyses
 - Sanctuary Golf Course initiated drain filter pilot study
 - City contracted study on water quality adjacent to the Dunes Golf Course - completed October 2011

Golf Course BMP Implementation



City Council FY2010-2011 Water Resources Accomplishments

- **Regional Accomplishments**

- Development of dispersed water storage/treatment (SFWMD)
 - 131,367 ac-ft of operational dispersed water storage within the Lake Okeechobee watershed as of August 2, 2011 (map on next slide)
 - Florida Ranchlands Payment for Environmental Services Program (FRESP)
 - Regional projects within the Caloosahatchee basin
 - 52,689 ac-ft of additional storage funded through construction
 - 339,410 ac-ft of additional storage identified within the Lake Okeechobee Watershed (currently unfunded)
 - Total of 523,466 ac-ft of new storage identified (184k ac-ft funded)
 - Goal for dispersed storage 450,000 acre-feet (= 1 ft off of Lake Okeechobee)
 - Everglades Headwaters NWR (50k ac + 100k ac in easements)

City Council FY2010-2011 Water Resources Accomplishments

- **Regional Accomplishments continued**
 - Worked with our local SFWMD Governing Board representative, Dan Delisi, to identify \$19 mil for Caloosahatchee basin water storage and treatment projects
 - Proposed projects include: Lake Hicpochee Restoration, Mirror Lakes Stormwater Retention Project, C-43 Reservoir Interim Storage Project
 - Work to begin this fiscal year once project list is finalized and approved by SFWMD Governing Board
 - Meeting to finalize project list November 1st at 1:00 p.m.

Questions?