

Project Name: C&SF: CERP Lake Okeechobee Aquifer Storage and Recovery (GG)
(GG Pt. 1, GG Pt. 2, GG Pt. 3)
Project ID: 1201 (CERP Project WBS # 03)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Federal/State

Strategic Plan Goal(s) Addressed: 1-A.2

Measurable Output(s): 1 billion gallons/per day of ASR wells

April 1999 (Restudy) Project Synopsis: Includes a series of aquifer storage and recovery wells adjacent to Lake Okeechobee with a capacity of one billion gallons per day and associated pre- and post- water quality treatment in Glades and Okeechobee Counties. The initial design assumes 200 wells, each with the capacity of 5 million gallons per day with 8- ultra-filtration water quality pre-treatment facilities and aeration for post-treatment. Based on information from existing aquifer storage and recovery facilities, it is assumed that recovery of aquifer-stored water would have no adverse effects on water quality conditions in Lake Okeechobee. In fact, some level of nutrient load reduction may occur as a result of aquifer storage, which would be a long-term benefit to in-lake water quality conditions.

Current Project Synopsis: The purpose of this project is to:

- 1) Provide additional regional storage while reducing both evaporation losses and the amount of land removed from current land use (e.g. agriculture) normally associated with construction and operation of above-ground storage reservoirs; Increase the lake's water storage capability to better meet regional water supply demands for agriculture, Lower East Coast urban areas, and the Everglades;
- 2) Manage a portion of regulatory releases from the Lake primarily to improve Everglades hydropatterns and to meet supplemental water supply demands of the Lower East Coast;
- 3) Reduce harmful regulatory discharges to the St. Lucie and Caloosahatchee Estuaries; and
- 4) Maintain and enhance the existing level of flood protection.

Operation assumes that after treatment, water from Lake Okeechobee will be injected into the upper Floridan Aquifer when the climate-based inflow model forecasts lake levels significantly above those desirable for the littoral zone (shoreline ecosystem). Water in the aquifer may be returned to the lake, post-aeration treatment, when the level falls during a dry season.

Current Status: Adheres to the original concept outlined in the Restudy and is dependent on the findings from the LOW ASR pilot (WBS #32) in progress. This project is expected to have three (3) phases, but has not yet begun and is planned for the future.

Est. Cost: \$ 1,432,270,000

Project Schedule:

TBD Construction begins.
TBD Construction completed.

Detailed Project Budget Information (rounded):

LOW ASR	Expenditures Thru FY 2009
USACE	\$0
SFWMD	\$0
Total	\$0

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_03_lake_o_asr.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 2009 dollars.