

DRAFT

M E M O R A N D U M

TO: Thomas K. MacVicar, Deputy Executive Director

FROM: Gary Goforth, Everglades Program Manager

DATE: May 24, 1994

SUBJECT: Discharges to the Everglades Protection Area

The following table compares historic discharges to the Everglades Protection Area with the discharges anticipated to occur after the completion of the Everglades Construction Project. These values are documented in the February 1994 Conceptual Design Document. (page #)

Discharge Source	Historic Discharges (acre-ft/yr)	With Project Flows (acre-ft/yr)	Difference (acre-ft/yr)
EAA Basin	883,400 (p. A-3)	677,000 (p. III-35) (p. III-49) (p. III-57) (p. III-66)	-206,400 (Δ)
C-139 Basin	98,000 (p. A-3)	98,000 (p. III-22) (p. III-78)	0 (Δ)
C-51 West Basin	4,900 (p. A-3)	105,400 (p. III-34)	100,500 (Δ)
L-8 Basin	50,700 (p. A-3)	0 (p. A-4)	-50,700 (Δ)
Lake Okeechobee Regulatory Releases	21,100 (p. A-3)	257,400 (Σ)	236,300 (p. IV-18)
Ch. 298 Districts	0 (p. A-3)	24,900 (p. IV-49) (p. IV-58) (p. IV-68)	24,900 (Δ)
BMP Make-up Flow	0 (p. A-3)	173,700 (p. A-4)	173,700 * (Δ)
TOTAL	1,058,100 (p. A-3)	1,336,400 (p. A-4)	278,300 (26.3%) (Δ)

The Conceptual Design indicates that further increases in flow to the EPA would be available by modifying operational practices for regulatory releases from Lake Okeechobee. As an example of this potential, for the 12 months ending April 30, 1993, regulatory releases from the Lake to the EPA totalled 933,865 acre feet, as compared to 211,000 acre feet for the entire 10-yr base period (1979-1988) used by Burns and McDonnell.

The 28 percent estimate in the Everglades Forever Act came from a simulation of the Mediated Plan with our computer model. The 26.3 percent above came from Burns and McDonnell's analysis of actual flow records. Had we operated during the base period the way we did in 1993 the 26.3 percent would be in excess of 30 percent. If we construct and operate the project as presently designed, meeting the 28 percent additional flow should not be a problem.

Please contact me should you have any questions regarding this information.

* STAs not designed for this capacity. => 9.9%

* Note BMP reduced discharge from EAA basin by ~ 173,700 AF
Balance (-27,700) due to conversion and land use