

## MEMORANDUM

**TO:** Laureen Borochaner, Chief, Engineering Division (USACE)  
**FROM:** John Mitnik, Chief District Engineer (SFWMD)  
Akin Owosina, Chief, Hydrology & Hydraulics Bureau (SFWMD)  
**DATE:** March 30, 2023  
**SUBJECT:** Operational Position Statement March 28, 2023 to April 3, 2023

This Position Statement is to provide operational input for the one-week period from March 28, 2023 to April 3, 2023 based on system conditions and data observed during the previous Monday to Sunday 7-day period. On March 27 Lake Okeechobee stage was 14.71 feet NGVD, which placed it within the Low Sub-band of the 2008 Lake Okeechobee Regulation Schedule (LORS). Lake stage decreased by 0.18 feet over the preceding 7-day period.

District March to date rainfall is much below normal (~28% of normal). Rainfall forecast (issued March 29) calls for near to below normal rainfall for the coming 7-day period and below to much below normal for the following one.

Precipitation Outlook: The most recent CPC precipitation outlooks for South Florida for April 2023 and for the 3-month window of Apr-Jun are for equal chances of below normal, normal and above normal rainfall. The 3-month windows of May-Jul and Jun-Aug indicate slightly increased chances of above normal rainfall for south Florida. All the 3-month windows from Jul-Sep to the end of 2024 Wet Season show equal chances of below normal, normal and above normal rainfall. The precipitation outlook for the transition to the 2023-2024 Dry Season indicate slightly increased chances of above normal rainfall for the northern half of the Kissimmee area. The 3-month window of Dec 2023 – Feb 2024 is for slightly increased chances of above normal rainfall for south Florida.

2008 LORS Release Guidance (Part C): With Lake Okeechobee stage within the Low Sub-band and the Tributary Hydrologic conditions in the Dry category, Part C of the 2008 LORS suggests “No Releases to WCAs”.

Over the 7-day period from March 20, 2023 to March 26, 2023, 1,600 acre-feet of regulatory releases were sent from Lake Okeechobee south to the Water Conservation Areas through STA-2. Lake regulatory releases in the amount of 1,400 acre-feet reached the Lake Worth Lagoon through the C-51 canal during this period. Stage in WCA-1 is below regulation schedule in Zone B, stage in WCA-2A is above regulation schedule, and WCA-3A stage is below regulation schedule in Zone B. For the coming operational period, based on the 2008 LORS 2022-2023 Dry Season strategy, USACE requesting maximum practicable regulatory releases be sent south from Lake Okeechobee towards the WCAs, using the lake releases volume banked during previous weeks when actual releases were less than the LORS 2008 maximum releases allowed.

2008 LORS Release Guidance (Part D): With Lake Okeechobee stage within the Low Sub-band and the Tributary Hydrologic conditions in the Dry category, Part D of the 2008 LORS suggests “S-79 up to 450 cfs and S-80 up to 200 cfs”. In addition, Lake Okeechobee is above 14.50 feet NGVD, which is stage for the upper line of the Ecological Envelope for this time of the year.

For the 7-day period March 20, 2023 to March 26, 2023, total discharge to the St. Lucie Estuary was about 350 cfs, with approximately 275 cfs coming from Lake Okeechobee. The 7-day average salinity in the middle estuary was within the optimal range (10-25) for adult eastern oysters. Total inflow to the Caloosahatchee Estuary averaged approximately 2,000 cfs with about 1,950 cfs coming from Lake Okeechobee through S-77. Salinities in the upper estuary were within the optimal range (0-10) for tape grass. The 7-day average salinities were in the optimal range for adult eastern oysters at Cape Coral (10-25) and in the upper stressed range at Shell Point and Sanibel (>25).

Since the end of November, both local basin runoff in the Caloosahatchee Watershed and lake releases through S-77 have maintained salinity in the Caloosahatchee Estuary. In an effort to bring Lake Okeechobee back towards the Ecological Envelope the District supports the USACE following 2008 LORS 2022-2023 Dry Season strategy, to implement non-harmful releases to the Caloosahatchee Estuary with an average discharge of 2,000 cfs (7-day pulse) as measured at the S-79 structure, as well as non-harmful releases to the St. Lucie Estuary with an average discharge of 500 cfs as measured at the S-80 structure, using the lake releases volume banked during previous weeks when actual releases were less than the LORS 2008 maximum releases allowed. Simultaneously, while continuing to implement maximum practicable regulatory releases south from Lake Okeechobee towards the WCAs, the District will direct a non-harmful average discharge of 100 cfs from Lake Okeechobee to the Lake Worth Lagoon when USACE is directing Lake Okeechobee releases to the St. Lucie Estuary. The USACE typically implements the releases to the estuaries starting on Saturday and ending on Friday. The Corps should continue to track Red Tide and Blue Green Algae conditions, and should conditions change during this operational period, the Corps should look to reassess releases as needed.