

MEMORANDUM

TO: Luis Alejandro, Chief, Water Management Section (USACE)

FROM: John Mitnik, Chief District Engineer (SFWMD)
Akin Owosina, Chief, Hydrology & Hydraulics Bureau (SFWMD)

DATE: May 3, 2018

SUBJECT: Operational Position Statement for May 1, 2018 to May 7, 2018

This Position Statement is for the one-week period from May 1, 2018 to May 7, 2018. On April 30, 2018, Lake Okeechobee stage was 13.18 feet NGVD, in the Base Flow Sub-band. Lake stage decreased by 0.04 feet during the preceding 7 days.

District rainfall for April was above average (109% of normal). District forecast (issued May 1) predicts near average rainfall for the coming week and above average for the following week.

Precipitation Outlook: The most recent Climate Prediction Center (CPC) precipitation outlook indicates equal chances of below-normal, normal and above-normal rainfall for the District for the month of May. The outlooks for all the future 3-month windows are for equal chances of below-normal, normal and above-normal rainfall, with the exception of the Jun-Aug and Jul-Sep windows which show slight increase of above-normal rainfall (37%) for the areas north of Lake Okeechobee and a more significant increase of above-normal rainfall (45%) for the areas south of the lake.

2008 LORS Release Guidance (Part C): With Lake Okeechobee stage within the Base Flow Sub-band and the Tributary Hydrologic Conditions in the Dry category, Part C of the 2008 LORS release guidance recommends “No releases to the WCAs”.

Over the 7-day period from April 23, 2018 to April 29, 2018, STA-1E received 400 acre-feet of Lake Okeechobee releases, STA 1W received no releases, STA 2 received 1800 acre-feet, STA 3/4 received 4,800 acre-feet, the A-1 FEB received 700 acre-feet and the L-8 FEB took 1,200 acre-feet. About 300 ac-ft made it from the lake to tide through the C-51 canal. Stage at gauge 1-8C in WCA-1 is in Zone A of the regulation schedule. Stage in WCA-2A is above the regulation schedule. Stage in WCA-3A is in Zone E. For the coming operational period, the USACE is requesting the SFWMD make no regulatory releases from the lake south to the WCAs.

2008 LORS Release Guidance (Part D): With Lake Okeechobee stage within the Base Flow Sub-band, Part D of the 2008 LORS release guidance suggests Base Flow releases: “S-79 Up to 450 cfs and S-80 up to 200 cfs”.

Total discharge to the St. Lucie Estuary averaged around 370 cfs over the past week with no releases coming from Lake Okeechobee. The 7-day average salinity at the US1 Bridge is in the fair range for adult oysters. Total inflow to Caloosahatchee Estuary averaged approximately 900 cfs over the past week with approximately 550 cfs (61%) coming from the Lake. Salinity conditions between Val I-75 and Ft. Myers remain good for tape grass. Salinity is in the good range for adult oysters at Cape Coral and at Shell Point.

The District has considered the application of the SFWMD’s Lake Okeechobee Adaptive Protocols (AP) this week since the lake stage is in the Base Flow Sub-band and the LORS release guidance is recommending Base Flow releases. Given that the estuary does not need water, the AP recommendation is for “No S-77 releases to the Caloosahatchee Estuary unless the Governing Board recommends otherwise”. The District recognizes the USACE desire to manage the lake stage by making Base Flow releases per the LORS release guidance.