MEMORANDUM

TO:	John Mitnik, Division Director, Operations, Engineering, and Construction
THROUGH:	Peter Kwiatkowski, Section Administrator, Resource Evaluation
FROM:	SFWMD Staff Water Supply Advisory Team
DATE:	September 19, 2017
SUBJECT:	Water Supply Report

District-wide Conditions

Surface and groundwater levels generally declined throughout the District over the last week. The majority of United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels or higher for this time of year. About half of the surface water and groundwater stations across the KB recorded decreases in water levels over the last week. Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are at 19.72, 17.10, and 17.54 feet, well above the fourteen feet agricultural cut-off. The majority of UEC surficial aquifer wells are the upper 76th to 90th percentile range or higher for this time of year. Surface and groundwater levels decreased in most of the Lower East Coast (LEC) monitoring stations over the past week. Approximately eighty percent of the USGS Biscayne aquifer monitor wells are in the upper 76th to 90th percentile range and higher, with most of the remainder at median levels.

In the Lower West Coast (LWC), groundwater levels decreased in most of the monitor wells over the last seven days. About three quarters of the wells in the Surficial aquifer are at or above their 90th percentile range for this time of year, with the remainder at median levels. Most of the Lower Tamiami aquifer wells are also at or above their 90th percentile range. Approximately half of the Sandstone aquifer monitor wells are in the upper 76th to 90th percentile range or higher, with the remainder at median levels for this time of year. About forty percent of the Mid-Hawthorn aquifer monitor wells are in the upper 76th to 90th percentile range or higher, with most of the remainder in the lower 10th to 24th percentile range. **Figure 1** summarizes current water level conditions.

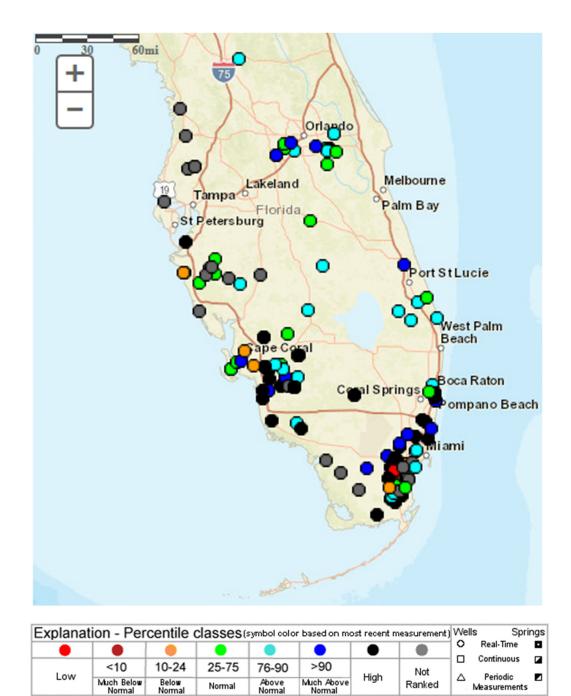


Figure 1. Florida Real-Time Groundwater Level Network Map

Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is 2.54 classified as "normal," and is in the "low" risk category. The LOK stage for the next two months is projected to be in the Intermediate Sub-Band, and the risk to water supply is categorized as "low." The Climate Prediction Center's (CPC) Precipitation Outlook is projected as "above normal" for one month and "above normal" for three months, leaving both the one-month and three-month outlooks in the "low" risk category. The LOK Seasonal Net Inflow Forecast is in the "normal" range, with "low" risk to water supply. The Multi-Seasonal Net Inflow Forecast is projected as "wet" with "low" risk to water supply. The stages in all Water Conservation Areas are above line 1 and are in the "low" risk category. Year-Round Irrigation Rule is in effect for the LEC Service Areas. **Figure 2** summarizes the water supply risk indicators.

LORS2008 Implementation on 9/18/2017 (ENSO Neutral Condition):

Status for week ending 9/19/2017:

District wide, Raindar rainfall was 0.54 inches for the week. Lake stage on 9/18/2017 was 15.50 ft, up 0.95 ft from last week.

The updated September 1 2017 SFWMM Dynamic Position Analysis <u>percentile graph</u> for Lake Okeechobee show that the current lake stage is in the Low Operational Sub-Band.

The LORS2008 tributary indices are classified as **Very Wet**. The PDSI indicates normal condition and the LONIN is Very Wet. The classification is based on the wetter of the two.

cted LOK Stage for the next two months almer Index for LOK Tributary Conditions CPC Precipitation Outlook K Seasonal Net Inflow Outlook ENSO La Nina Years	Intermediate Sub Band 2.54 (Normal) 1 month: Above Normal 3 months: Above Normal 3.34 ft (Normal)	
Conditions CPC Precipitation Outlook K Seasonal Net Inflow Outlook	(Normal) 1 month: Above Normal 3 months: Above Normal 3.34 ft	L
K Seasonal Net Inflow Outlook	3 months: Above Normal 3.34 ft	L
K Seasonal Net Inflow Outlook	3.34 ft	
	(Norman)	L
DK Multi-Seasonal Net Inflow Outlook	3.34 ft (Wet)	L
ENSO La Nina Years 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Above Line 1 (16.93 ft)	L
WCA 2A: Site 2-17 HW	Above Line 1 (14.52 ft)	L
-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (12.02 ft)	L
Service Area 1	Year-Round Irrigation Rule in effect	L
Service Area 2	Year-Round Irrigation Rule in effect	L
	Year-Round Irrigation Rule	L
		Service Area 1 in effect Service Area 2 Year-Round Irrigation Rule in effect Year-Round Irrigation Rule

Water Supply Risk Evaluation

Figure 2. Water Supply Risk Indicators