# MEMORANDUM

TO:	John Mitnik, Division Director, Operations, Engineering, and Construction	
THROUGH:	DUGH: Peter Kwiatkowski, Section Administrator, Resource Evaluation	
FROM:	<b>DM:</b> SFWMD Staff Water Supply Advisory Team	
DATE:	E: April 17, 2018	
SUBJECT:	Water Supply Report	

### **District-wide Conditions**

Surface and groundwater levels showed mixed trends throughout the District over the last week with the majority of decreasing levels in the Lower West Coast. Most of the United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries are at median levels for this time of year. The majority of surface water and groundwater stations across the KB recorded increases in water levels over the last week. Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 are at 21.61, 19.22, and 17.59 feet, all above the fourteen feet agricultural cut-off. About two thirds of UEC surficial aquifer wells are in the median percentile range for this time of year, with the reminder in the lower 10<sup>th</sup> to 24<sup>th</sup> percentile range and lower. Surface and groundwater levels increased in about two thirds of the Lower East Coast (LEC) monitoring stations over the past week. About three quarters of the Biscayne aquifer monitor wells are at median levels for this time of year. Levels are low in Everglades National Park (ENP), Water Conservation Area 2A and the C-111 basin.

Overall, conditions are drying out in the Lower West Coast (LWC). Groundwater levels decreased in the majority of the monitor wells over the last seven days. Most of the wells in the Surficial aquifer are at median levels for this time of year. About half of the Lower Tamiami aquifer wells are in the lower 10th to 24th percentile range, with the remainder mostly at median levels. About two thirds of the Sandstone aquifer monitor wells are at median levels for this time of year, also with the remainder in the lower percentile ranges. Approximately two thirds of the Mid-Hawthorn aquifer monitor wells are at median levels, with the remainder in the lower percentile range. **Figure 1** summarizes current water level conditions.

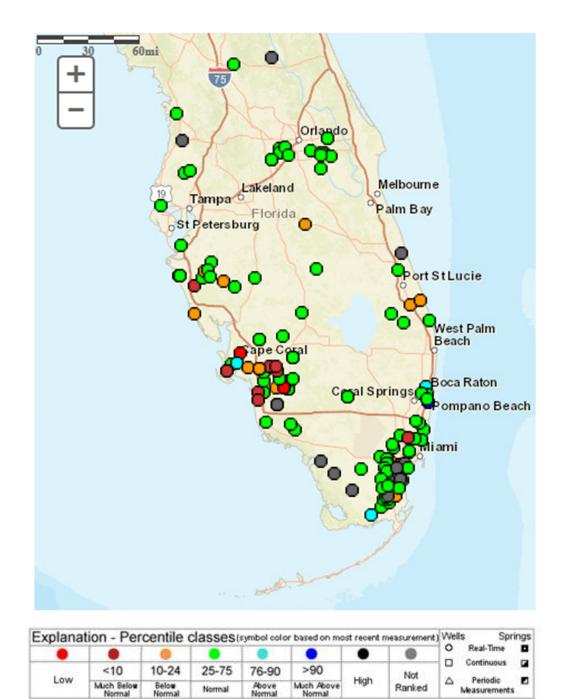


Figure 1. Florida Real-Time Groundwater Level Network Map

### Water Supply Technical Input to LORS2008

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -1.61 classified as "dry," and is in the "moderate" risk category. The LOK stage for the next two months is projected to be in the Beneficial Use Sub-Band, and the risk to water supply is categorized as "high." The Climate Prediction Center's (CPC) Precipitation Outlook is projected as "below normal" for one month and "normal" for three months, leaving the one-month outlook in the "moderate" risk category and three-month outlook in the "low" risk category. The LOK Seasonal Net Inflow Forecast is in the "normal to extremely wet" range, with "low" risk to water supply. The Multi-Seasonal Net Inflow Forecast is projected as "normal" with "moderate" risk to water supply. The stages in Water Conservation Areas 1 and 3A are above line 1 and are in the "low" risk category. Water Conservation Areas 2A is in the "high" 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 4/16/2018 (ENSO La Nina Condition):

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Beneficial Use Sub Band	н
	Palmer Index for LOK Tributary Conditions	-1.61 (Dry)	м
	CPC Precipitation Outlook	1 month: Below Normal	М
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook ENSO La Nina Years	1.89 ft (Normal to Extremely Wet)	L
	LOK Multi-Seasonal Net Inflow Outlook	2.46 ft (Normal)	м
WCAs	ENSO Conditions WCA 1: Station Average (Site 1-7, Site 1-8T, Site 1-9)	Above Line 1 (16.11 ft)	L
	WCA 2A: Site S11BHW	Below Line 2 10.02 ft)	н
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (9.01 ft)	L
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	L
	Service Area 3	Year-Round Irrigation Rule in effect	L

#### Water Supply Risk Evaluation

Figure 2. Water Supply Risk Indicators