

## MEMORANDUM

**TO:** John Mitnik, Division Director, Operations, Engineering, and Construction

**THROUGH:** Peter Kwiatkowski, Section Administrator, Resource Evaluation

**FROM:** SFWMD Staff Water Supply Advisory Team

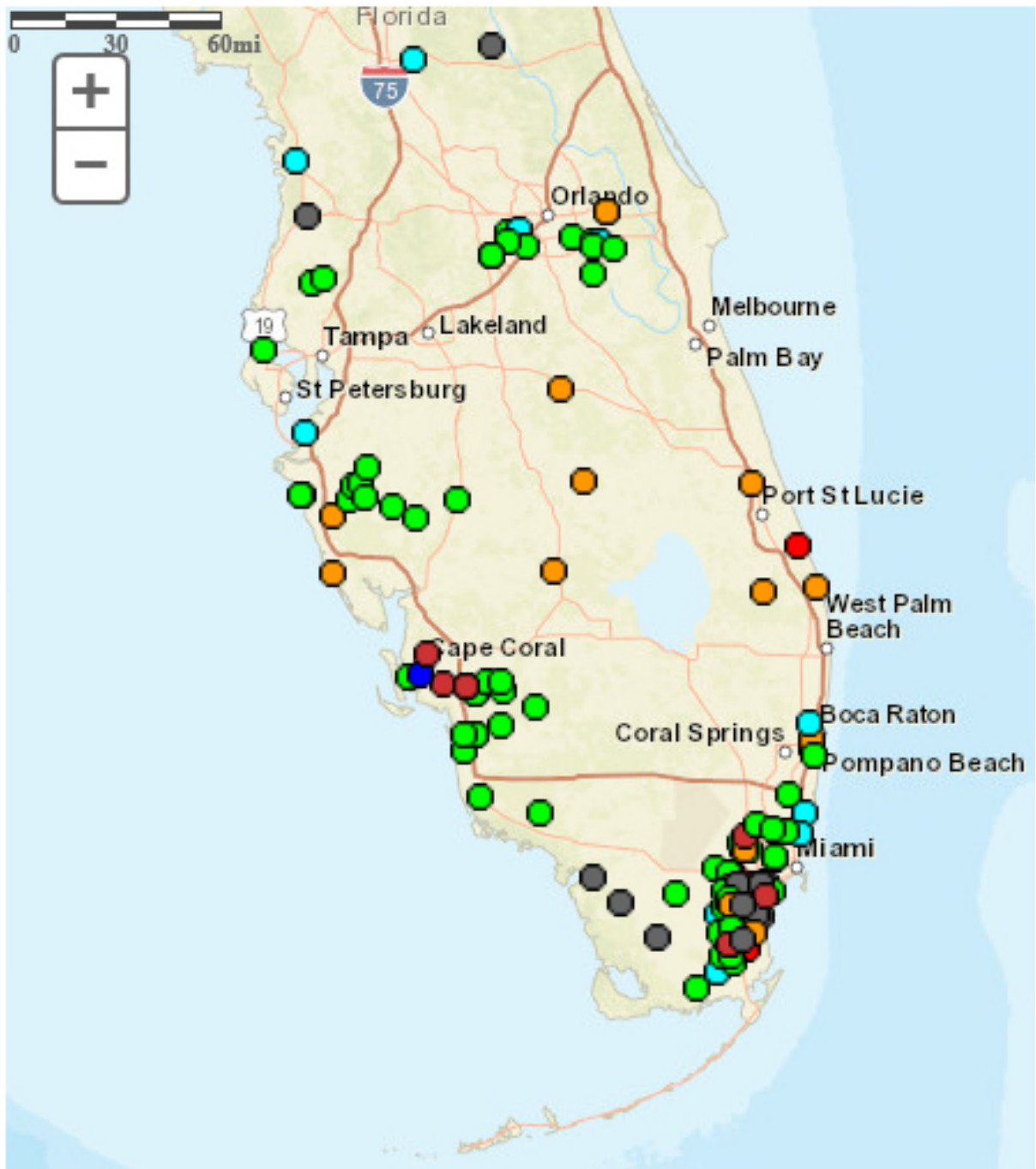
**DATE:** December 4<sup>th</sup>, 2018

**SUBJECT:** Water Supply Report

### **District-wide Conditions**

Surface and groundwater levels showed mixed trends throughout the District over the last week. The majority 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 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 22.20, 18.75, and 17.48 feet, all above the fourteen feet agricultural cut-off. UEC surficial aquifer wells located inland are mostly at median levels with stations in the coastal areas in their lower percentile ranges. Surface and groundwater levels decreased in most of the Lower East Coast (LEC) stations over the past week. About sixty percent of the Biscayne aquifer monitor wells are at median levels and higher, with the remainder in the lower percentile ranges for this time of year.

Groundwater levels decreased in the majority of the stations in the Lower West Coast (LWC) over the last seven days. Approximately sixty percent of the wells in the Surficial aquifer are in their median percentile ranges, with the remainder in the lower percentile ranges. About ninety percent of the Lower Tamiami aquifer wells are at median levels or higher for this time of year, with the remainder in the lower 10<sup>th</sup> to 24<sup>th</sup> percentile range. Approximately fifty percent of the Sandstone aquifer monitor wells are at median levels and higher, with the remainder in the lower percentile ranges. About sixty percent of the Mid-Hawthorn aquifer monitor wells are at median levels and higher, with the remainder in the lower percentile ranges. **Figure 1** summarizes current water level conditions.



Explanation - Percentile classes (symbol color based on most recent measurement)							
Low	<10	10-24	25-75	76-90	>90	High	Not Ranked
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal		

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 -2.19 classified as “extremely dry,” and is in the “high” risk category. The LOK stage for the next two months is projected to be in the Baseflow Sub-Band, and the risk to water supply is categorized as “moderate.” 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 outlook 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 “wet” with “low” risk to water supply. The stage in Water Conservation Area 1 is in the “moderate” risk category. Stages in Water Conservation Areas 2A and 3A 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 12/03/2018 (ENSO Neutral Condition):**

Status for week ending 12/03/2018:

**Water Supply Risk Evaluation**

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Base Flow Sub Band	M
	Palmer Index for LOK Tributary Conditions	-2.19 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	1.16 ft (Normal to Extremely Wet)	L
	ENSO Forecast (positive)		L
	LOK Multi-Seasonal Net Inflow Outlook	4.03 ft (Wet)	L
ENSO Forecast (positive)	L		
WCAs	WCA 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Line 1- Line 2 (16.31 ft)	M
	WCA 2A: Site 2-17 HW	Above Line 1 (12.55 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (9.63 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

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

**Figure 2. Water Supply Risk Indicators**