



# RIVERSIDE PUBLIC UTILITIES

## Board Memorandum

**BOARD OF PUBLIC UTILITIES**

**DATE:** DECEMBER 10, 2018

**GENERAL MANAGER'S REPORT**

**ITEM NO:**

### **Summary of Riverside Public Utilities Urban Water Production and Conservation Efforts / Groundwater Level Update As of October 2018**

#### Conservation Efforts

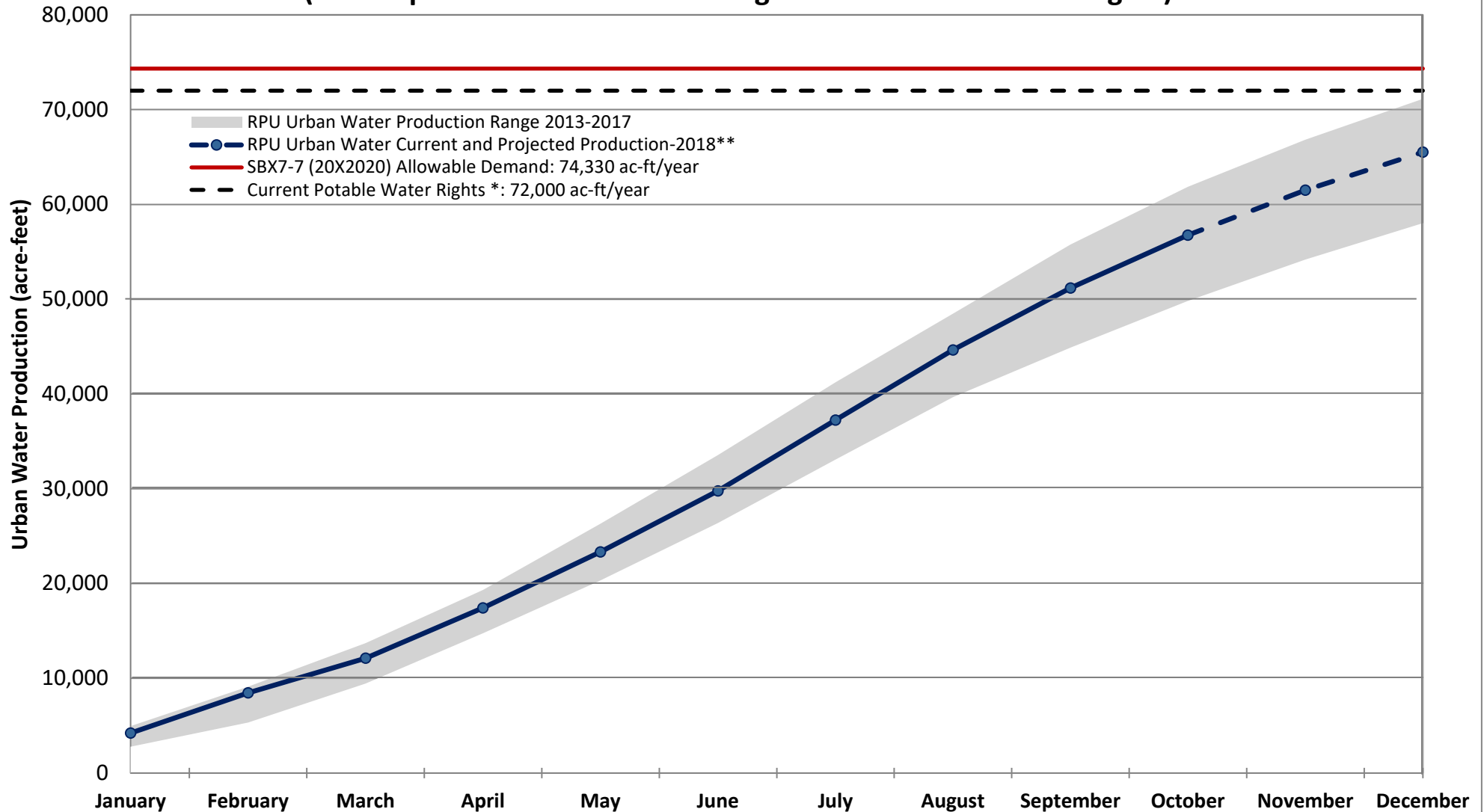
RPU's urban water production in October 2018 was 5,585 AF. This is a decrease from last October by 637 AF or a conservation of 10%. Weather conditions showed October of 2018 was cooler by 6.1 degrees from October last year and experienced 1.0 inch of rainfall compared to zero inches from October 2017. RPU is still within the historical production range from 2013 to 2017 as shown in Figure 1. Figure 1 also shows that RPU's projected annual urban water production in 2018 is 65,600 AF which is below the compliance target specified in SB X7-7 (i.e. 20% reduction by 2020). The projections for the 2018 urban water production is based on current trends of increased consumption and can be affected by the permanent water prohibitions implemented by the State and/or the return of drought conditions. The projected annual urban water production is also below RPU's current potable rights, which potentially can maximize RPU's passive assets by 6,400 AF through wholesale to Western Municipal Water District.

#### Basin Groundwater Levels

Groundwater levels in the Bunker Hill, Rialto-Colton, and Riverside North basins are continuing to show a long-term declining trend, while groundwater levels in the Riverside South Basin remain relatively stable as shown in Figure 2. Water levels in Bunker Hill are approximately 1 foot higher as compared to October of last year. Water levels in the Rialto-Colton and Riverside North basins are 6 and 16 feet lower as compared to October of last year, respectively. The Riverside South Basin is approximately 3 feet lower as compared to October of last year.

# Figure 1: Annual RPU Urban Water Production

(as Compared to Conservation Target and Available Water Rights)

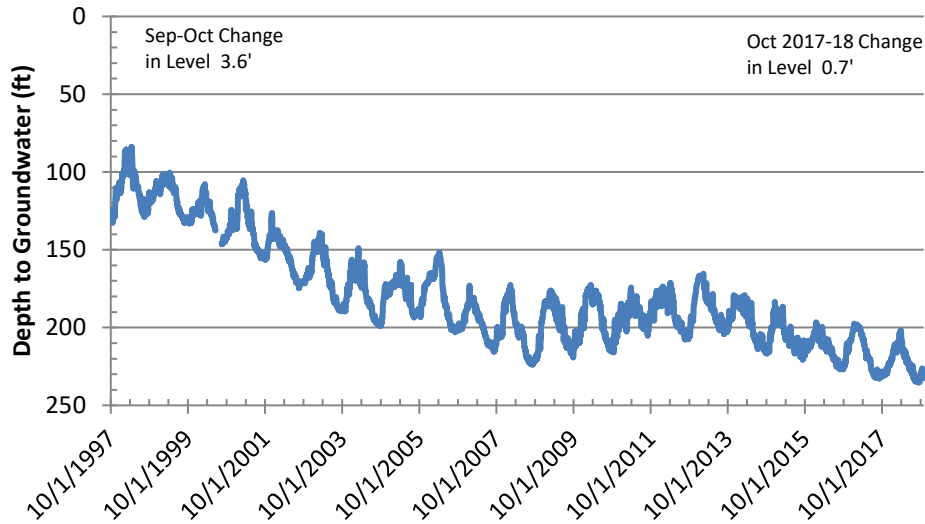


\* Current Potable Water Right is the total current RPU Production rights minus all non potable obligations ( 85,774 - 12,000(Gage Canal ) - 875(WMWD) - 900(Overlying Uses) = 72,000 ac-ft/year).

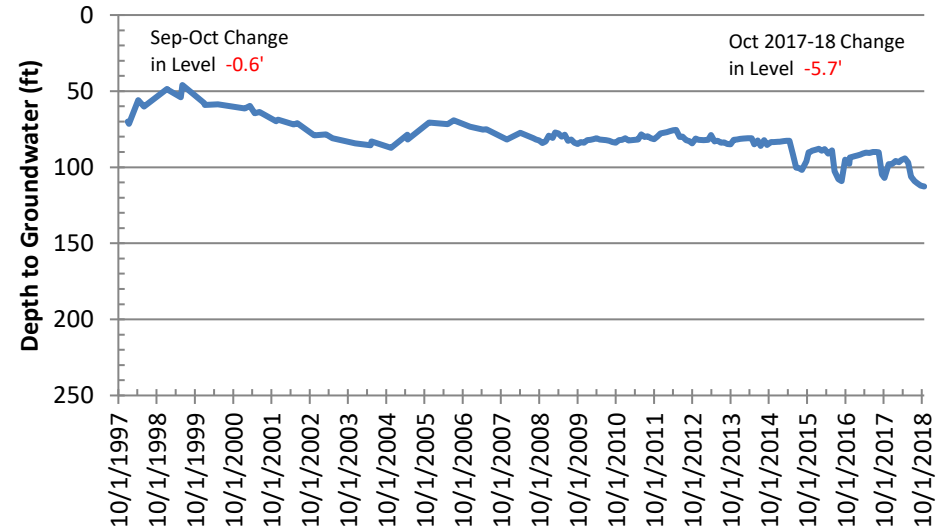
\*\* Projections for 2018 are based on current trend of increased consumption. These projections can be affected by the upcoming permanent prohibitions, return of the drought episode, and proposed rate increase.

## Figure 2: Basin Groundwater Levels

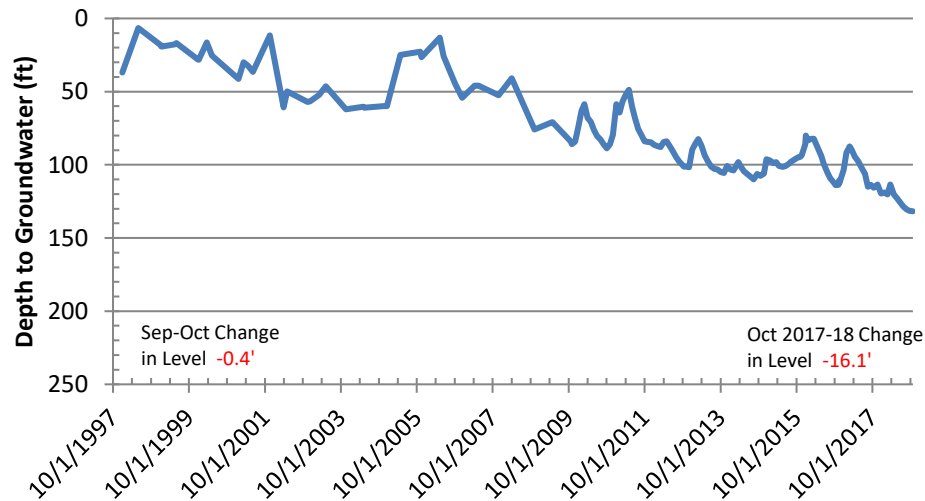
**Bunker Hill Basin**  
Sierra High School (USGS)



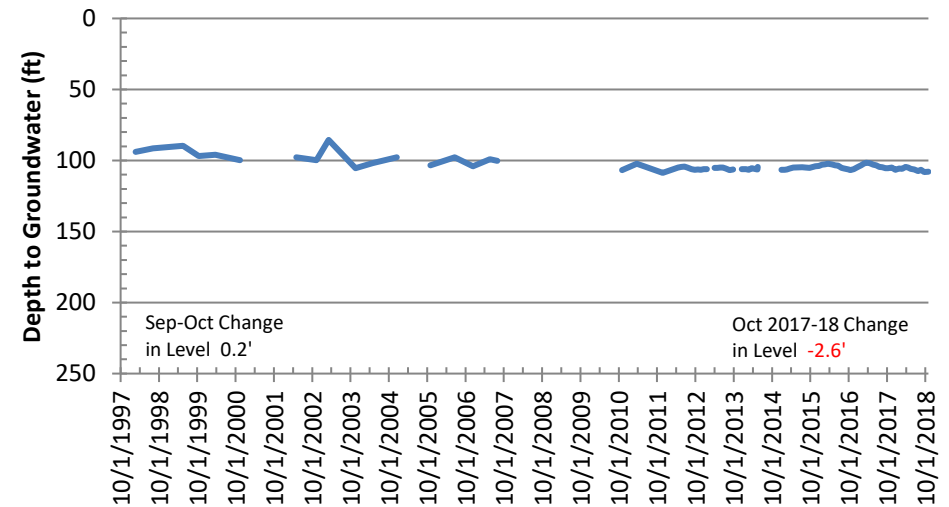
**Rialto-Colton Basin**  
Johnson 1



**Riverside North Basin**  
Flume 5



**Riverside South Basin**  
Cunningham



# Figure 3: Groundwater Basin Vicinity Map

