RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: November 5, 2018

GENERAL MANAGER'S REPORT

ITEM NO:

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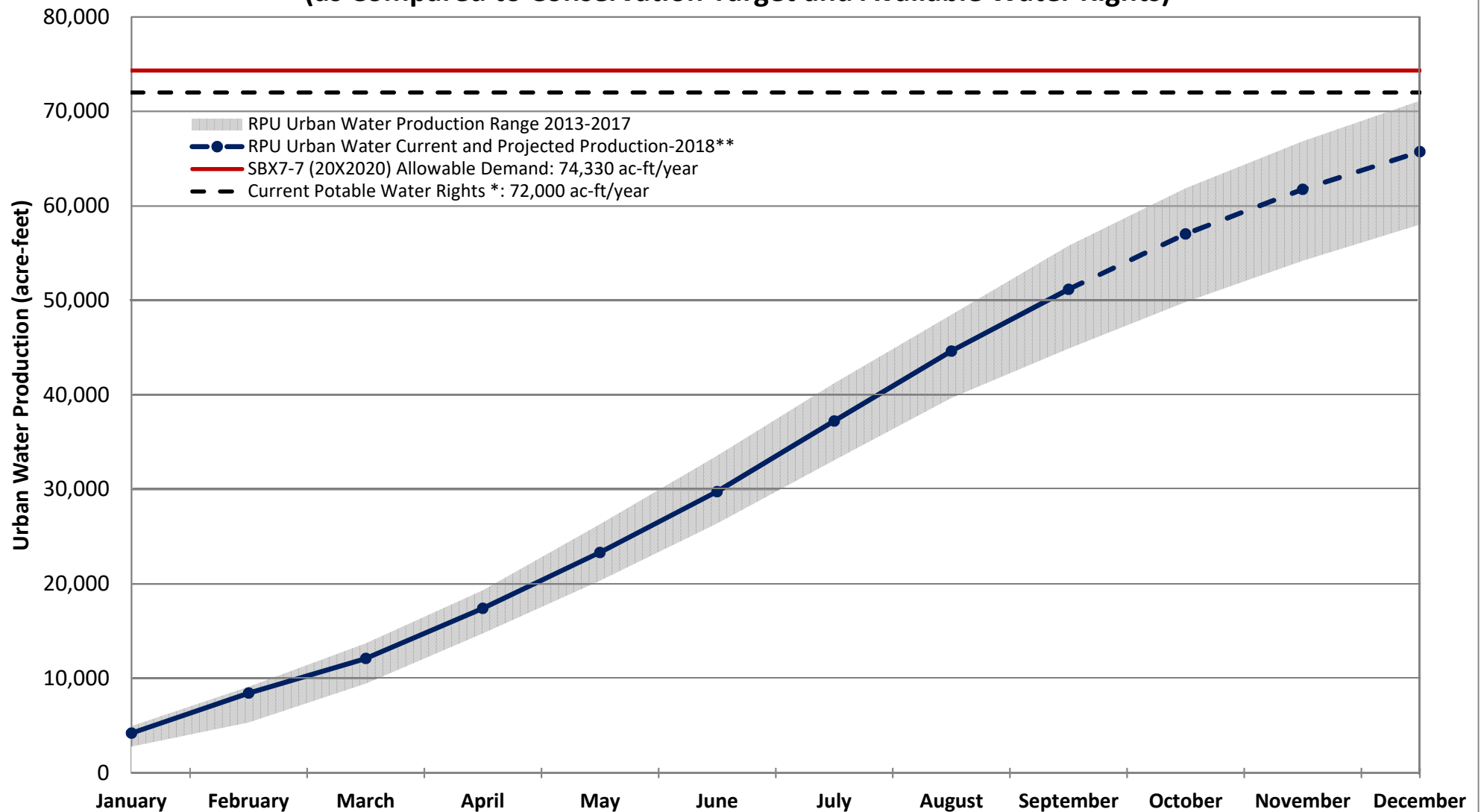## Update As of September 2018

Conservation Efforts

RPU's urban water production in September 2018 was 6,531 AF. This is an increase from last September by 239 AF or a drop in conservation of 3.6%. Weather conditions showed a dry September month with respect to the 0.06 inches of rainfall from September 2017. September of 2018 was warmer by about 3.0 degrees compared to last year. 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 64,150 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 6,260 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 2 feet lower as compared to September of last year. Water levels in the Rialto-Colton and Riverside North basins are 7 and 18 feet lower as compared to September of last year, respectively. The Riverside South Basin is approximately 3 feet lower as compared to September of last year.

Figure 1: Annual RPU Urban Water Production
(as Compared to Conservation Target and Available Water Rights)

Legend:
- RPU Urban Water Production Range 2013-2017
- RPU Urban Water Current and Projected Production-2018**
- SBX7-7 (20X2020) Allowable Demand: 74,330 ac-ft/year
- Current Potable Water Rights *: 72,000 ac-ft/year

Y-axis: Urban Water Production (acre-feet)

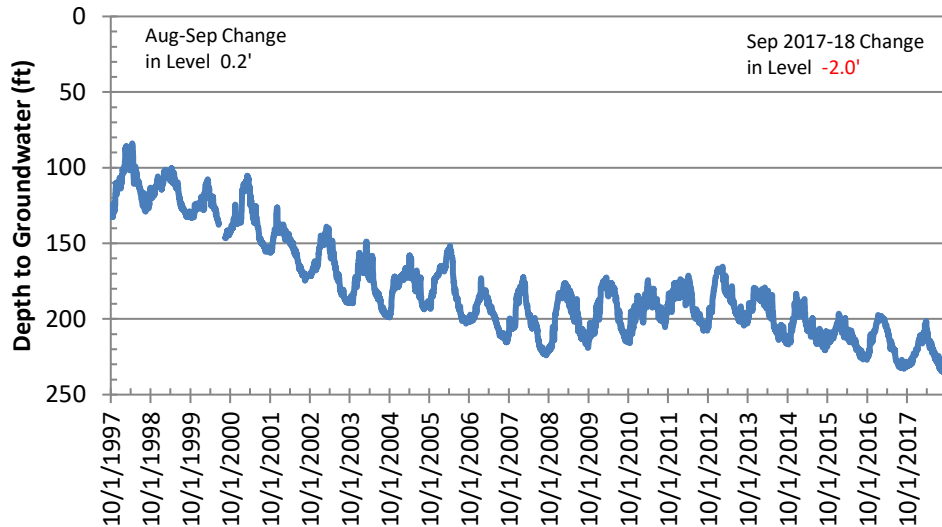X-axis months: January, February, March, April, May, June, July, August, September, October, November, December

* 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.
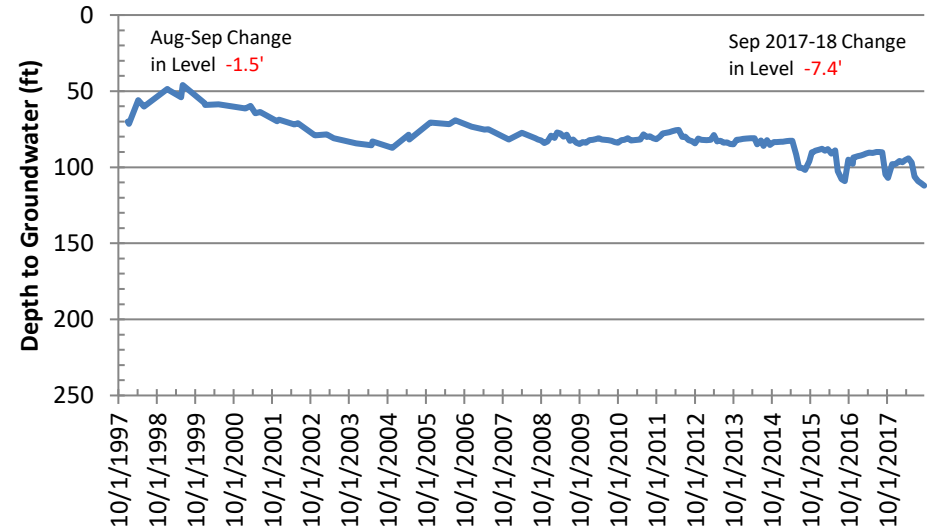
September 2018

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Figure 2: Basin Groundwater Levels

Bunker Hill Basin
Sierra High School (USGS)

Aug-Sep Change in Level 0.2'

Sep 2017-18 Change in Level -2.0'

Rialto-Colton Basin
Johnson 1

Aug-Sep Change in Level -1.5'

Sep 2017-18 Change in Level -7.4'

Riverside North Basin
Flume 5

Aug-Sep Change in Level -1.1'

Sep 2017-18 Change in Level -17.6'
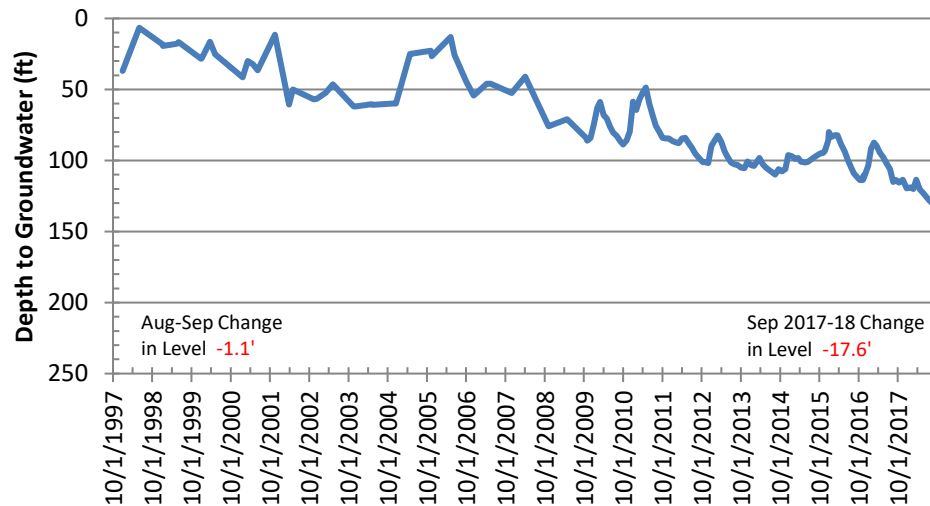
Riverside South Basin
Cunningham

Aug-Sep Change in Level -1.5'

Sep 2017-18 Change in Level -2.7'

September 2018
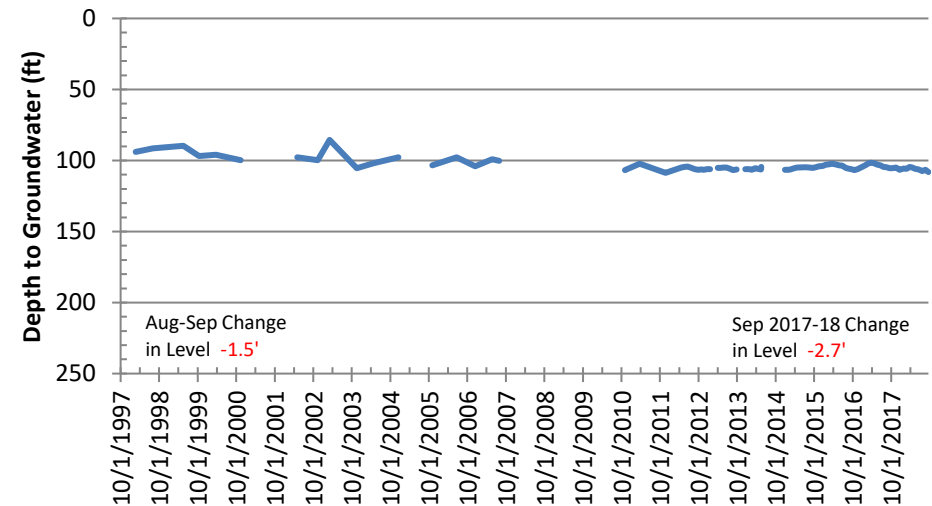
Figure 3: Groundwater Basin Vicinity Map

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