



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: May 11, 2020

GENERAL MANAGER'S REPORT

ITEM NO: 14

SUBJECT: MONTHLY WATER REPORT – March 2020

In March, RPU's total water production was 4,769 acre-feet (AF) as shown in Figures 1 and 2. RPU's annual rolling production totals by month are shown in Figure 3. In March, the peak water usage on the potable water distribution system was 61.0 million gallons per day (MGD) and occurred on March 5, 2020 as shown on Figure 4.

RPU's potable water supply, including deliveries to Western Municipal Water District (WMWD), totaled 4,115 AF, which increased from last March by 524 AF. Under the Cooperative Agreement for Water Production and Conveyance with WMWD, 483 AF was wheeled to WMWD during March as shown in Figures 1 and 2. During this 2019/20 fiscal year, a total of 5,441 AF of potable water has been delivered to WMWD.

In March, RPU's Gallons Per-Capita per Day (GPCD) was 123, and its Residential Gallons Per-Capita per Day (R-GPCD) was 72. RPU's annual rolling GPCD was 186, which is below the compliance target specified in SB X7-7 (i.e. 20% reduction by 2020) of 213. RPU's annual rolling R-GPCD was 109 as shown on Figure 5.

Weather conditions within the City of Riverside showed that March of 2020 was cooler by 4.5 degrees from March of last year and experienced a small decrease of 0.26 inches of rainfall compared to March 2019.

There were no significant events for the water system in March 2020.

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 6. Water levels decreased by 2 feet in the Bunker Hill Basin as compared to March of last year. Water levels increased by 4 feet in the Rialto-Colton Basin as compared to March of last year. Water levels increased by 3 feet in the Riverside North Basin, while the levels in the Riverside South Basin did not change as compared to March of last year.

FIGURE 1: RPU WATER - TOTAL PRODUCTION REPORT - FISCAL YEAR 2019 - 2020

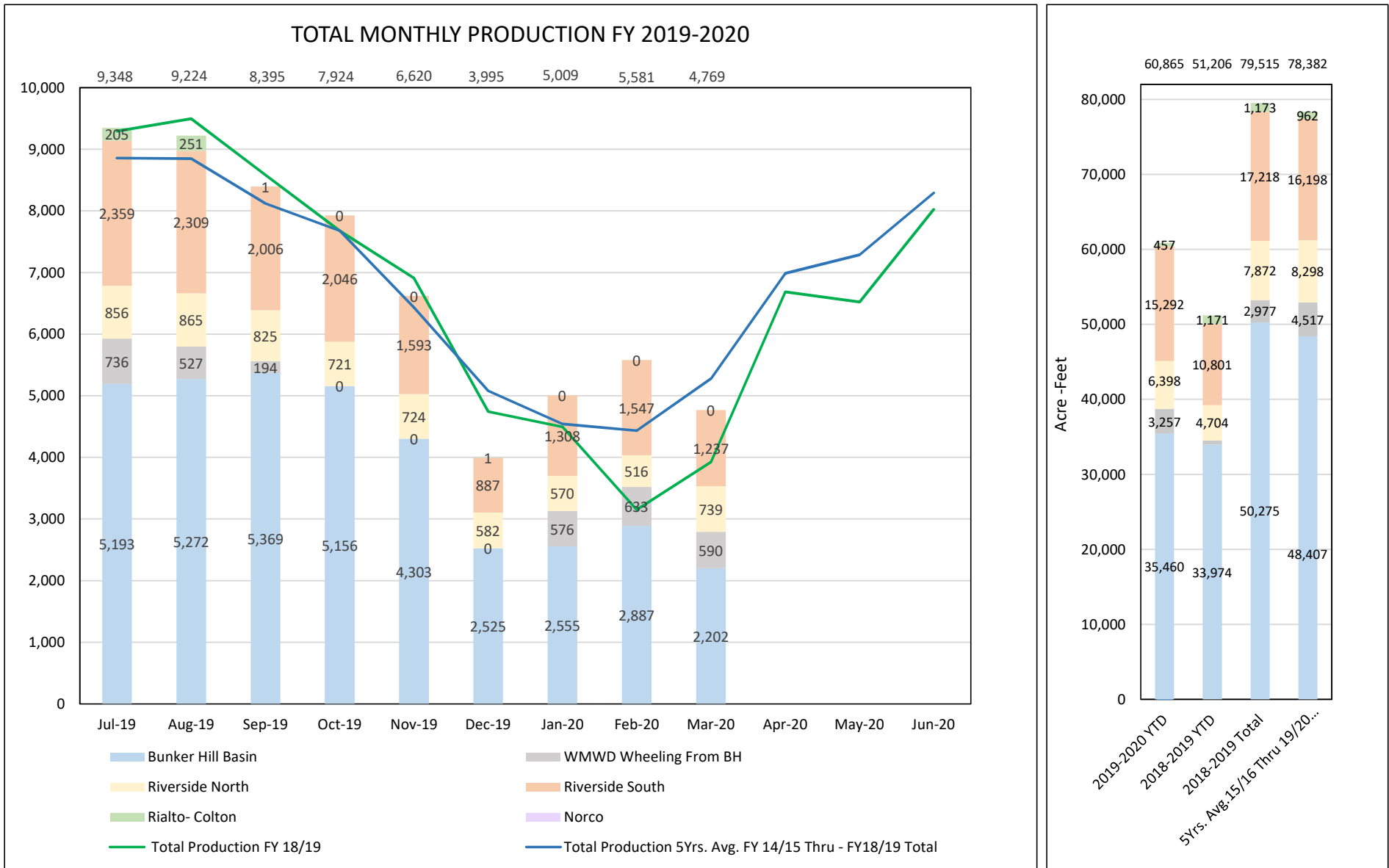


FIGURE 2: RPU WATER - TOTAL PRODUCTION REPORT - CALENDAR YEAR 2020

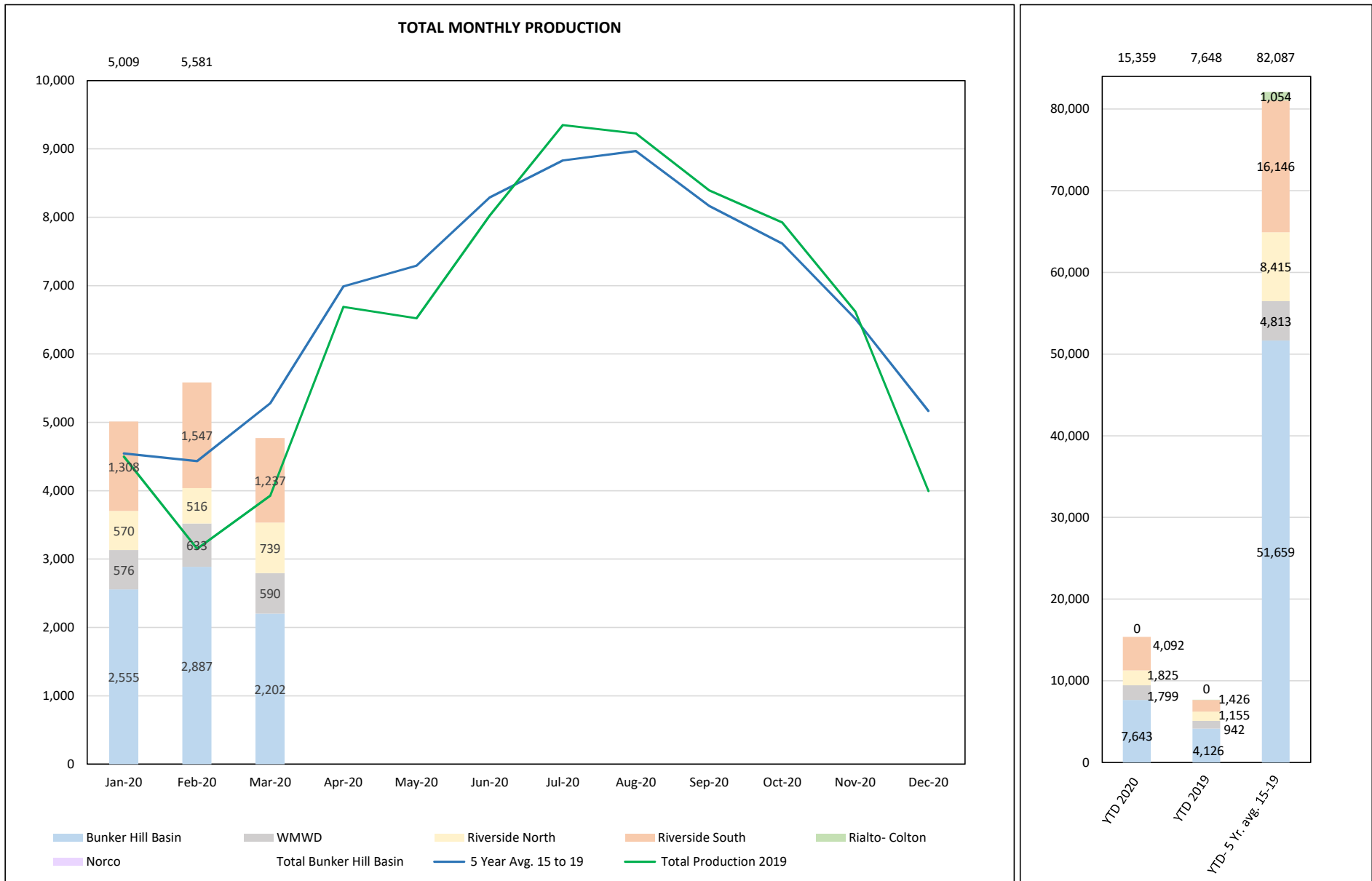


FIGURE 3: RPU WATER - TOTAL PRODUCTION REPORT

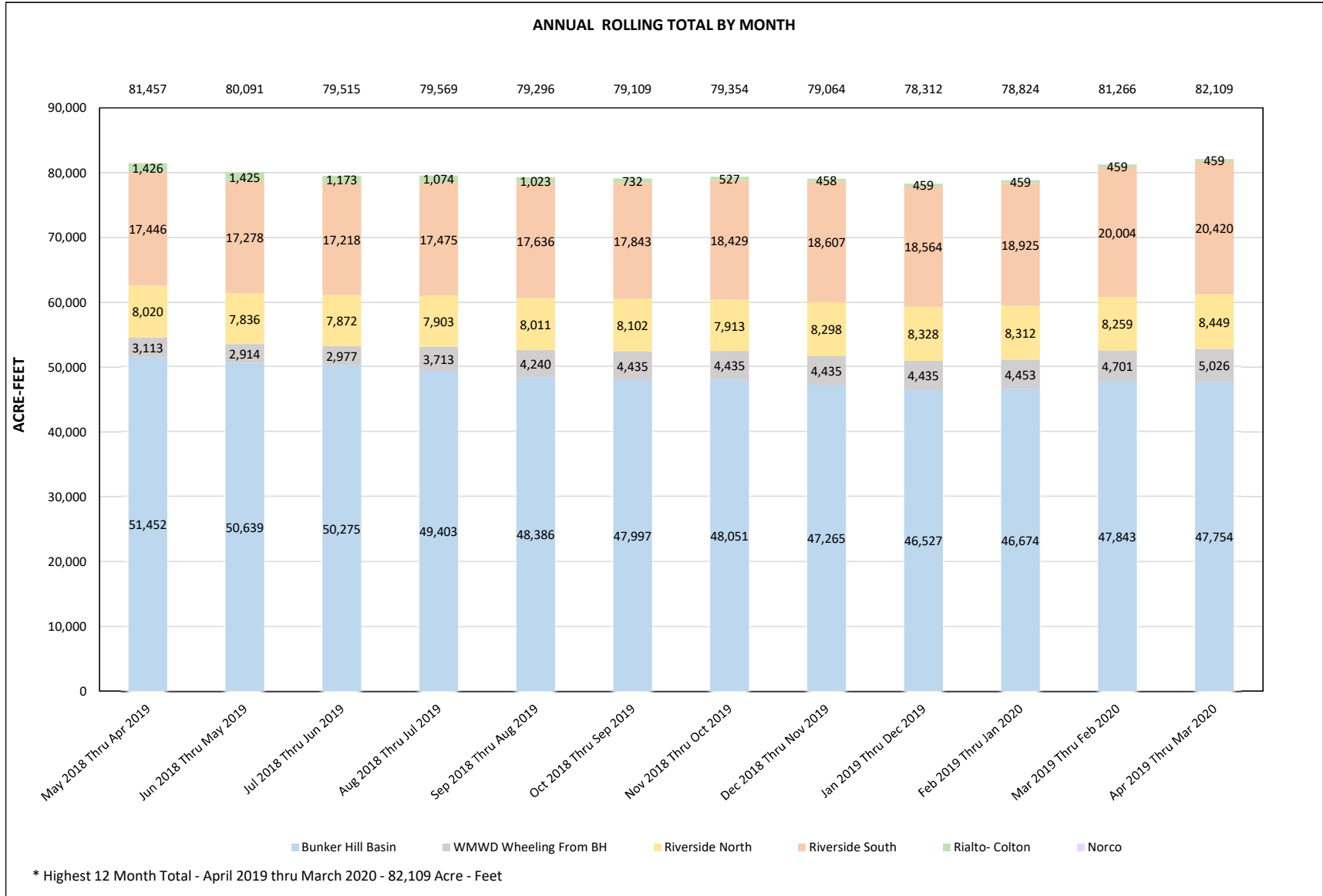


FIGURE 4: RPU WATER - TOTAL MONTHLY CONSUMPTION REPORT

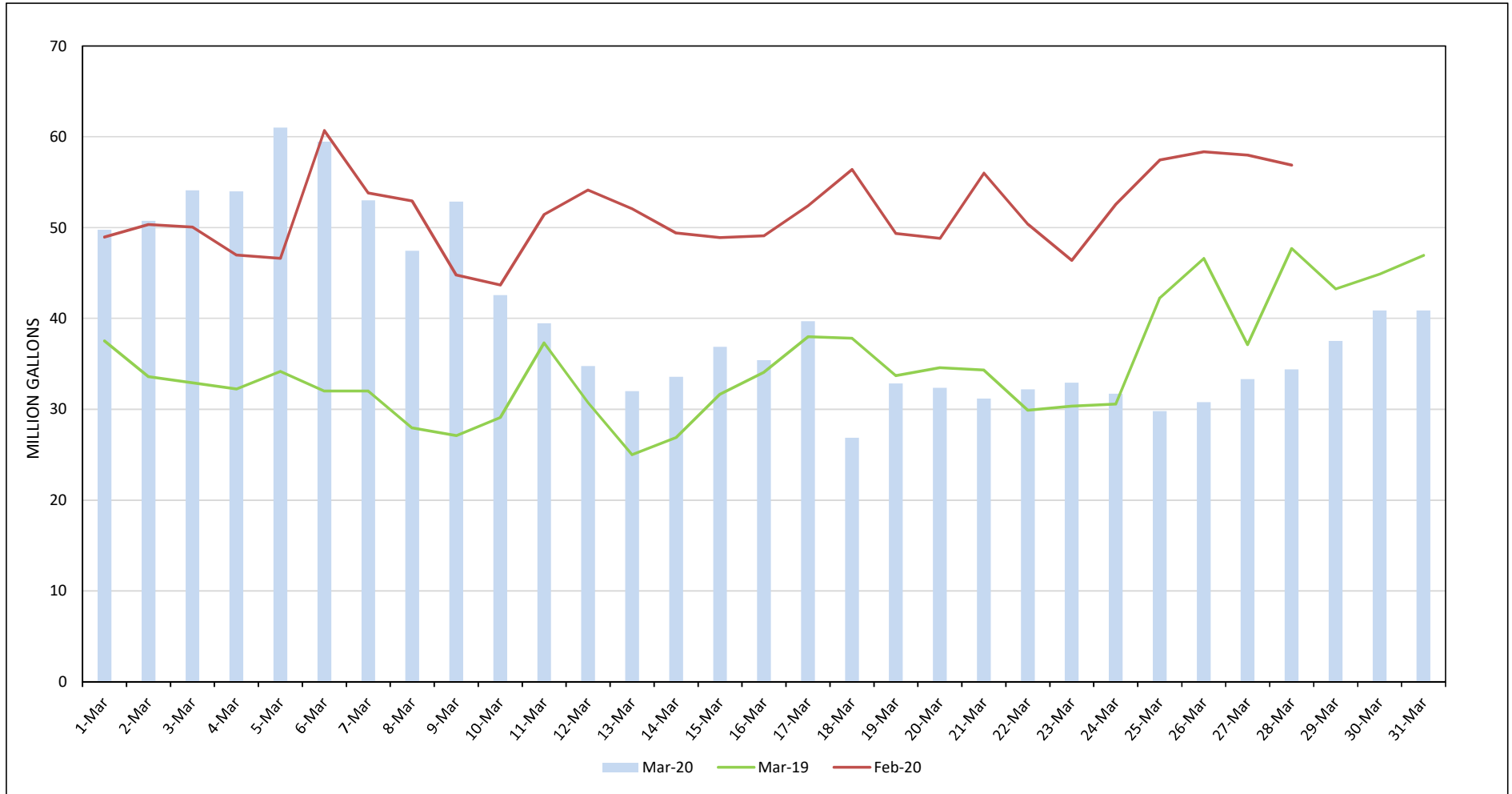


FIGURE 5: RPU WATER - TOTAL GPCD AND R-GPCD ANNUAL ROLLING

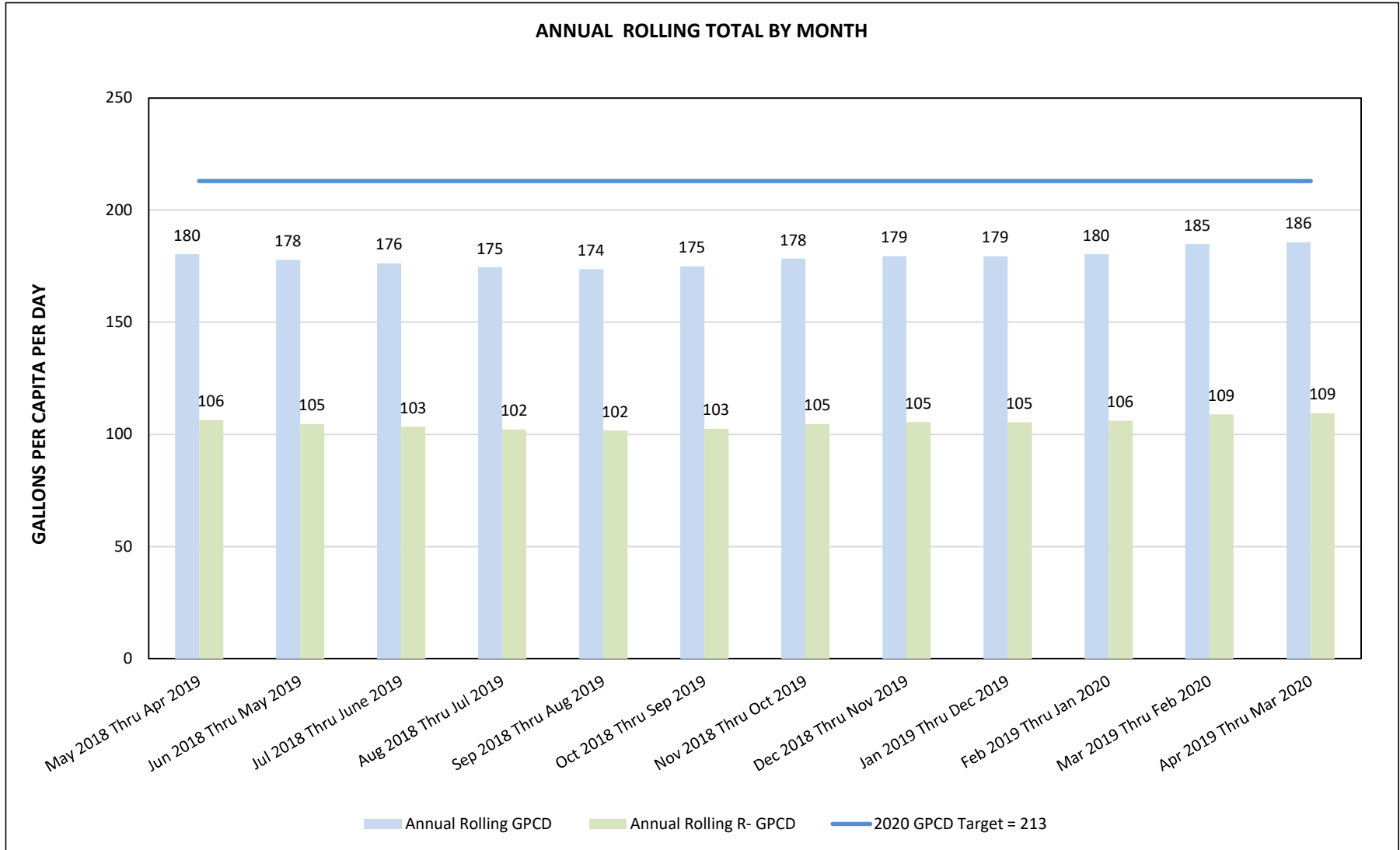
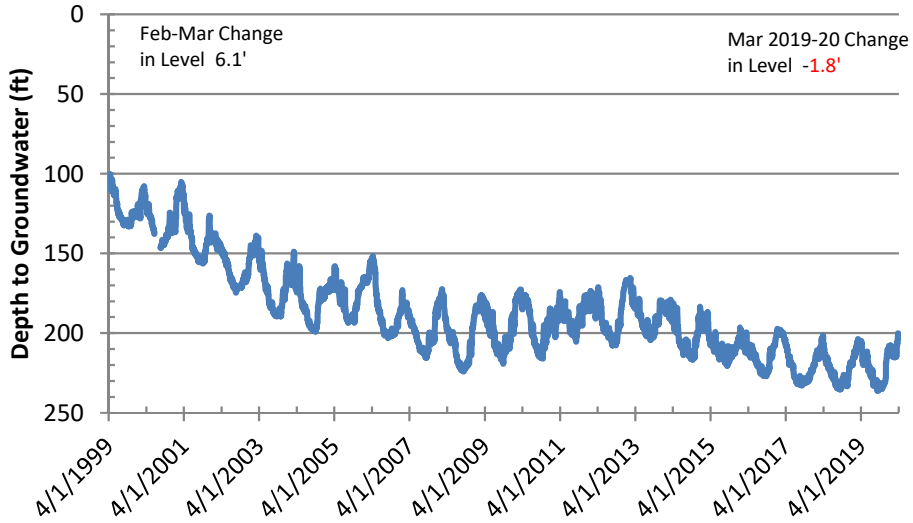
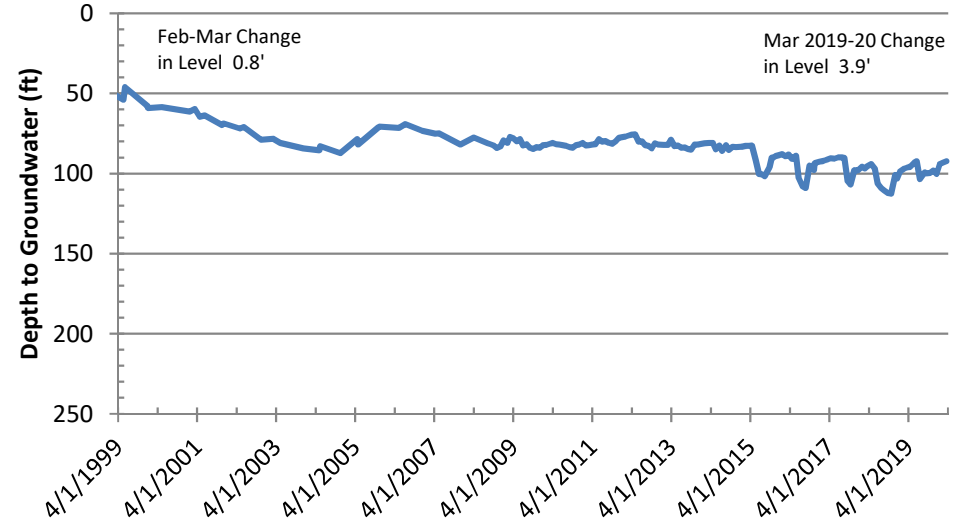


Figure 6: Basin Groundwater Levels

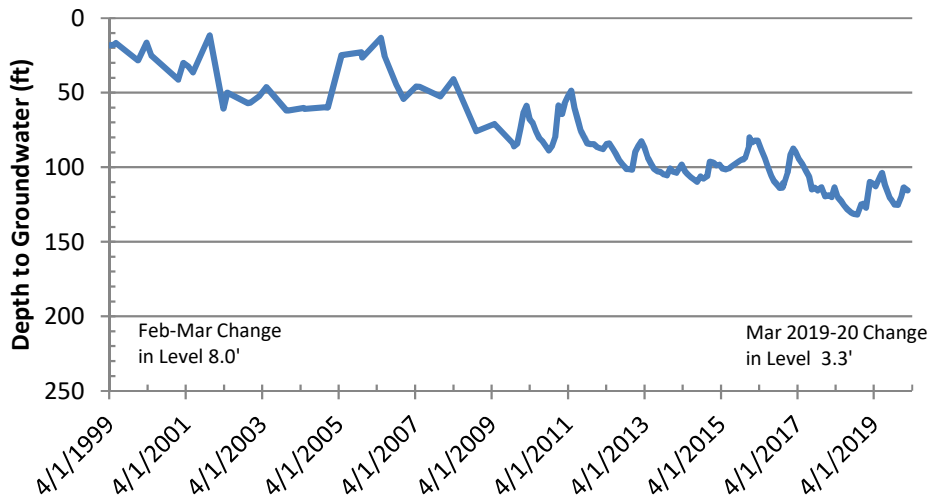
Bunker Hill Basin
Sierra High School (USGS)



Rialto-Colton Basin
Johnson 1



Riverside North Basin
Flume 5



Riverside South Basin
Cunningham

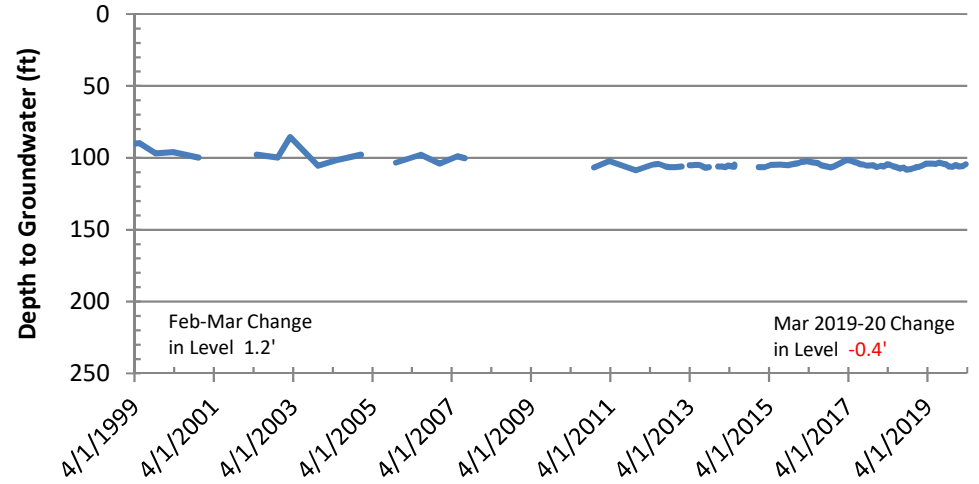
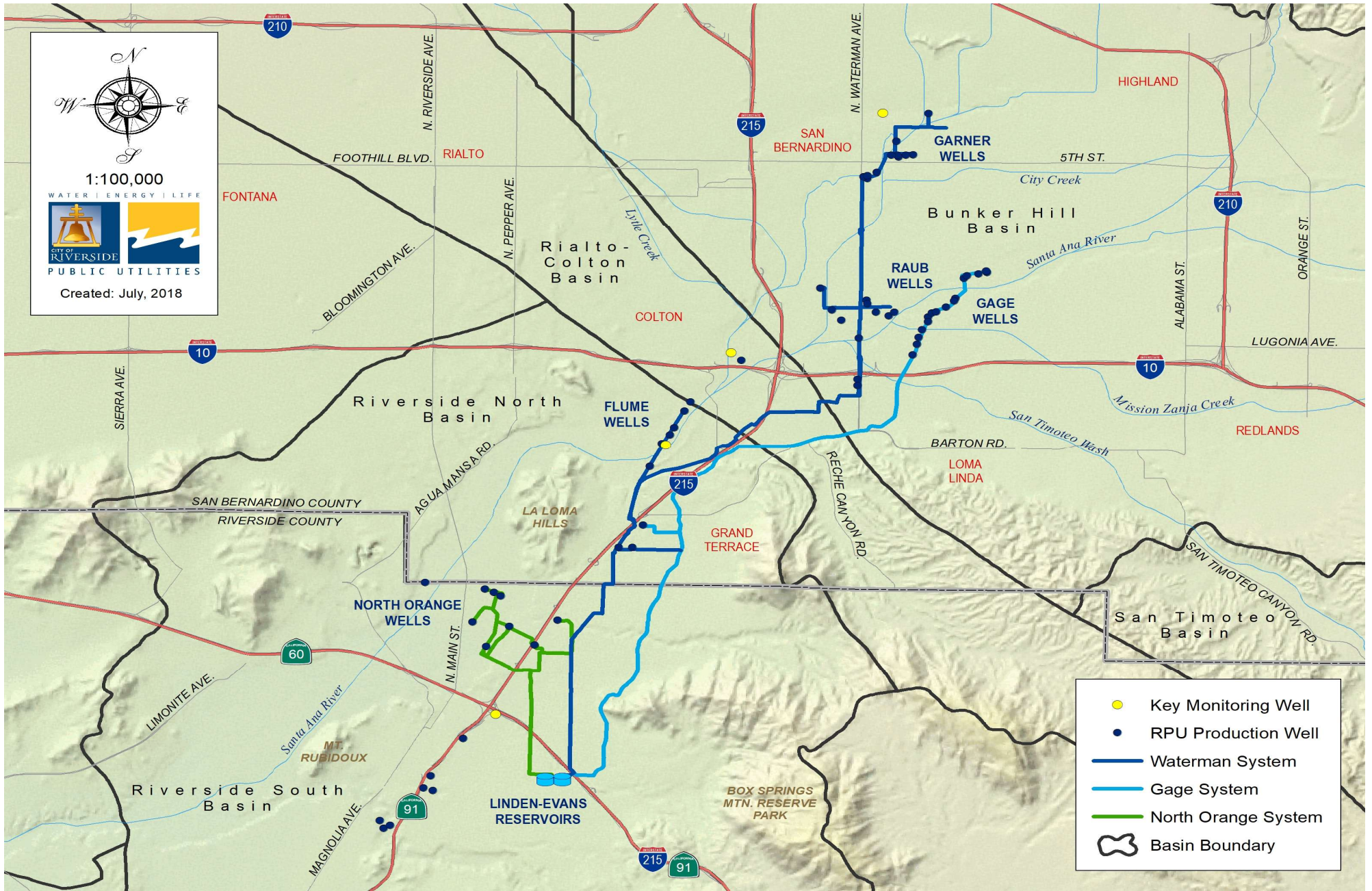


Figure 7: Groundwater Basin Vicinity Map



1:100,000

 WATER | ENERGY | LIFE

 CITY OF RIVERSIDE

 PUBLIC UTILITIES

 Created: July, 2018

- Key Monitoring Well
- RPU Production Well
- Waterman System
- Gage System
- North Orange System
- Basin Boundary