



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: March 8, 2021

GENERAL MANAGER'S REPORT

SUBJECT: MONTHLY WATER REPORT – January 2021

In January, RPU's total water production was 5,377 acre-feet (AF) as shown in Figures 1 and 2. RPU's annual rolling production totals by month are shown in Figure 3. In January, the peak water usage on the potable water distribution system was 62.5 million gallons per day (MGD) and occurred on January 14, 2021 as shown in Figure 4.

RPU's potable water supply, including deliveries to Western Municipal Water District (WMWD), and the City of Norco totaled 4,693 AF, which increased from last January by 290 AF. Under the Cooperative Agreement for Water Production and Conveyance with WMWD 531 AF was wheeled to WMWD during January. During this 2020/21 fiscal year, a total of 4,484 AF of potable water has been delivered to WMWD. And Under the Agreement for the Sale of Surplus Potable Water and Emergency Water, RPU delivered 0 AF to Norco in January 2021.

In January, RPU's Gallons Per-Capita per Day (GPCD) was 141, and its Residential Gallons Per-Capita per Day (R-GPCD) was 83. RPU's annual rolling GPCD was 189, 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 114 as shown in Figure 5. The new performance standard will be published in Fall 2021 and will be implemented in 2023.

Weather conditions within the City of Riverside showed that January of 2021 was cooler by 1.3 degrees from January last year and experienced an increase of 1.75 inches of rainfall compared to January 2020.

In January 2021 due to Redlands Passenger Rail Project crossing at Waterman Ave, the Waterman water transmission line was shut down on January 14th, 2021, and put back into service on Thursday, January 21, 2021. This event did not affect RPU's consumption for January 2021.

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 17 feet in the Bunker Hill Basin compared to January of last year. Water levels in the Rialto-Colton Basin decreased by 3 feet as compared to January of last year. Water levels in the Riverside North Basin decreased by 11 feet, while the levels in the Riverside South Basin remained constant.

FIGURE 1: RPU WATER - TOTAL PRODUCTION REPORT - FISCAL YEAR 2020 - 2021

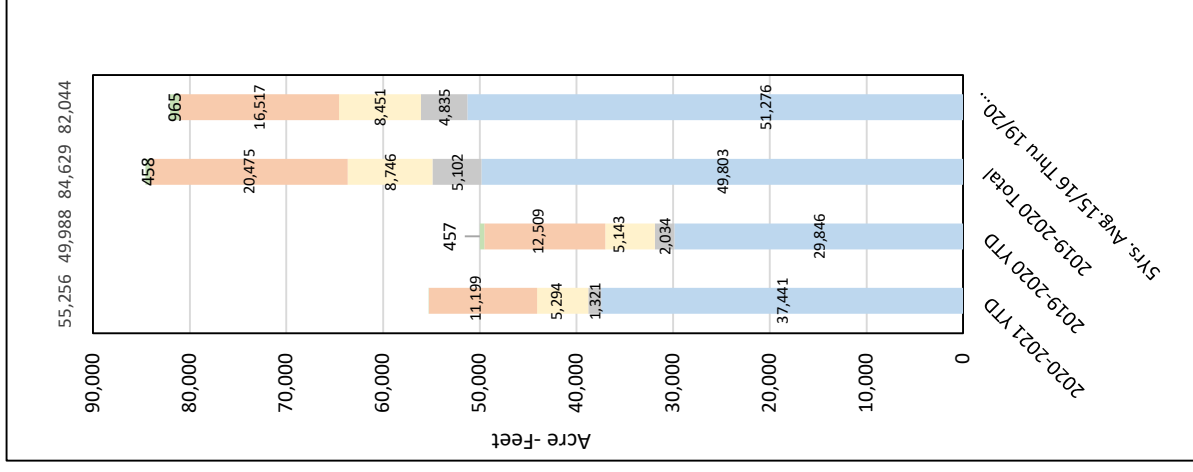
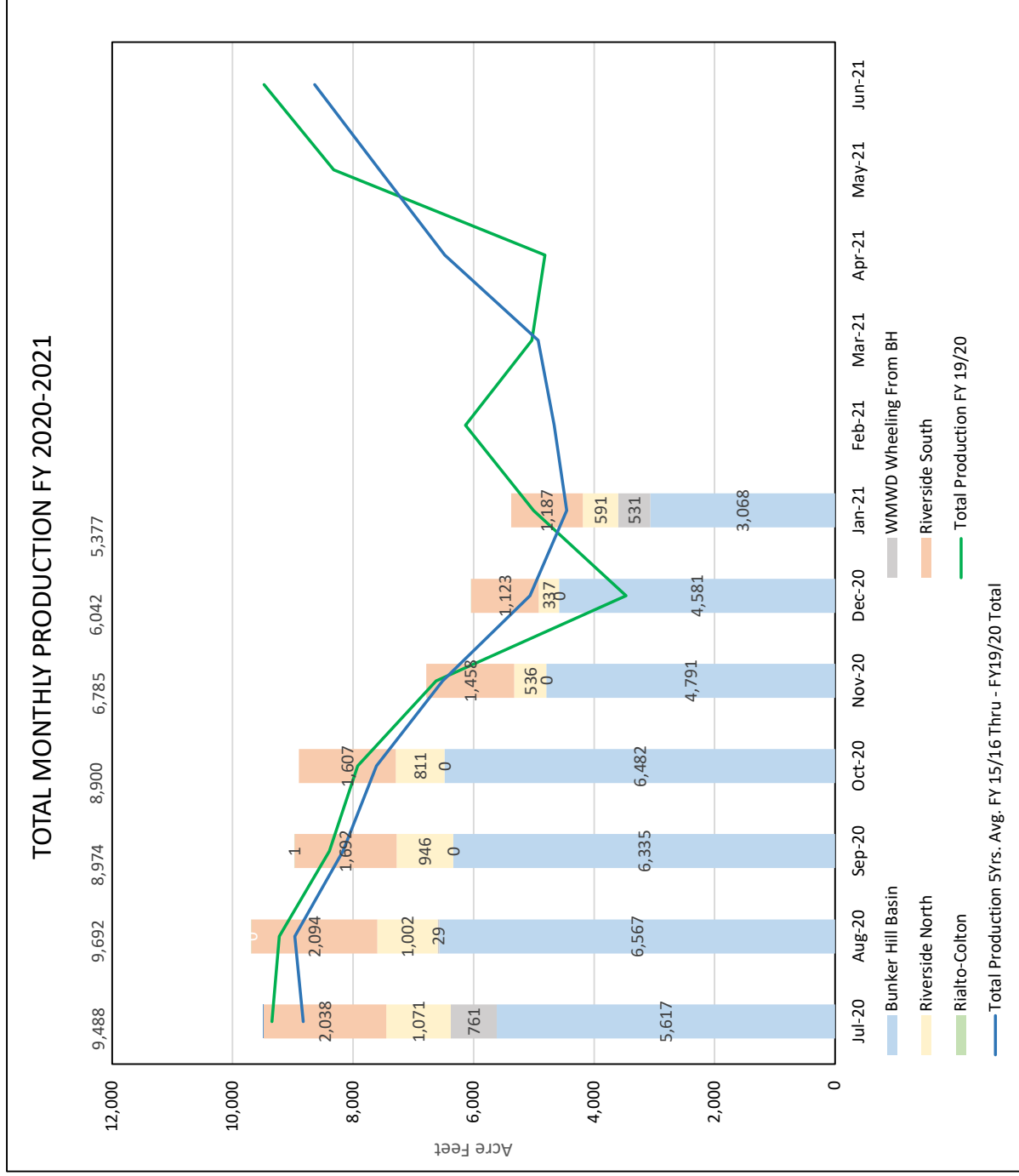


FIGURE 2: RPU WATER - TOTAL PRODUCTION REPORT - CALENDAR YEAR 2021

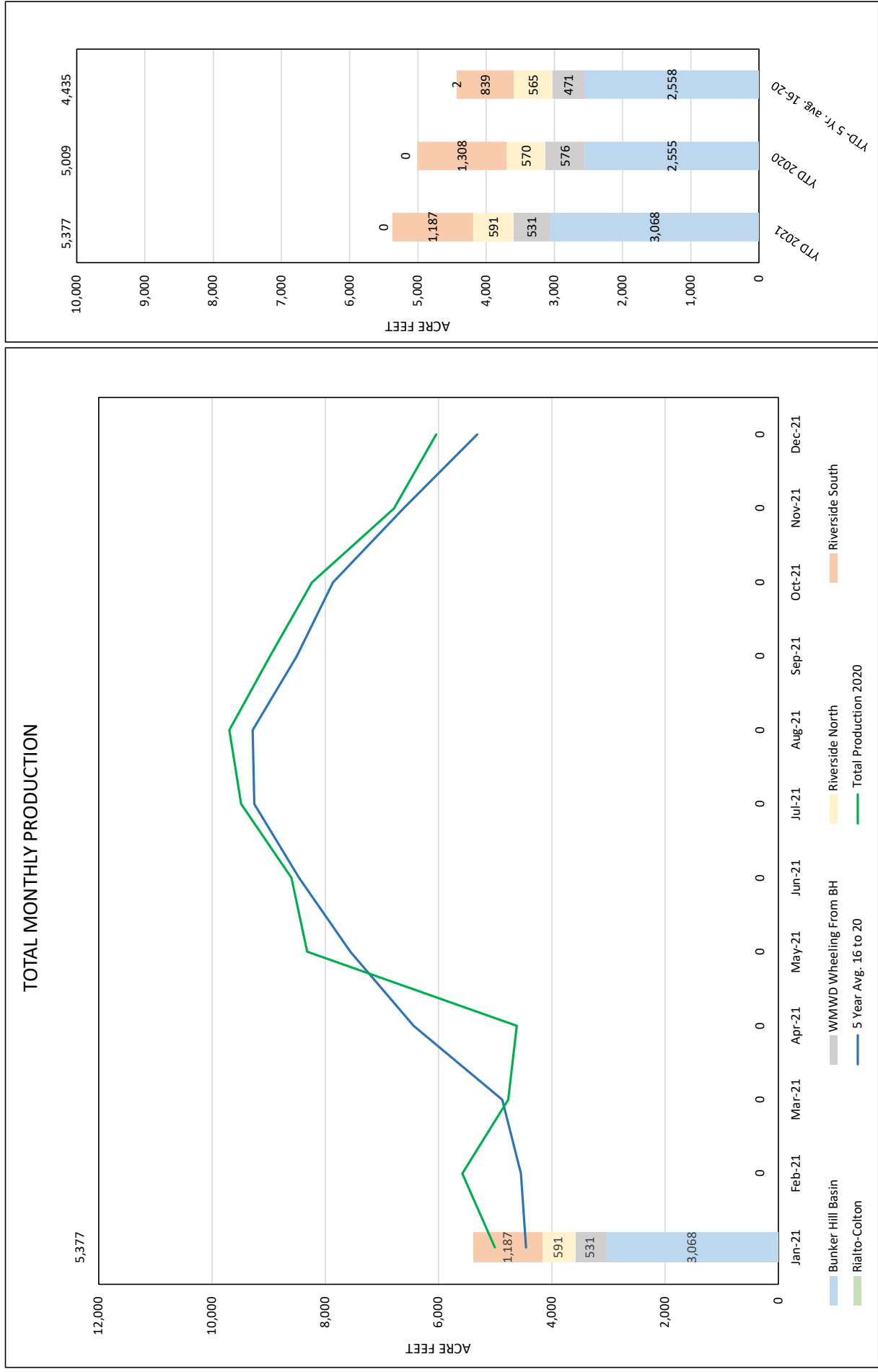


FIGURE 3: RPU WATER - TOTAL PRODUCTION REPORT

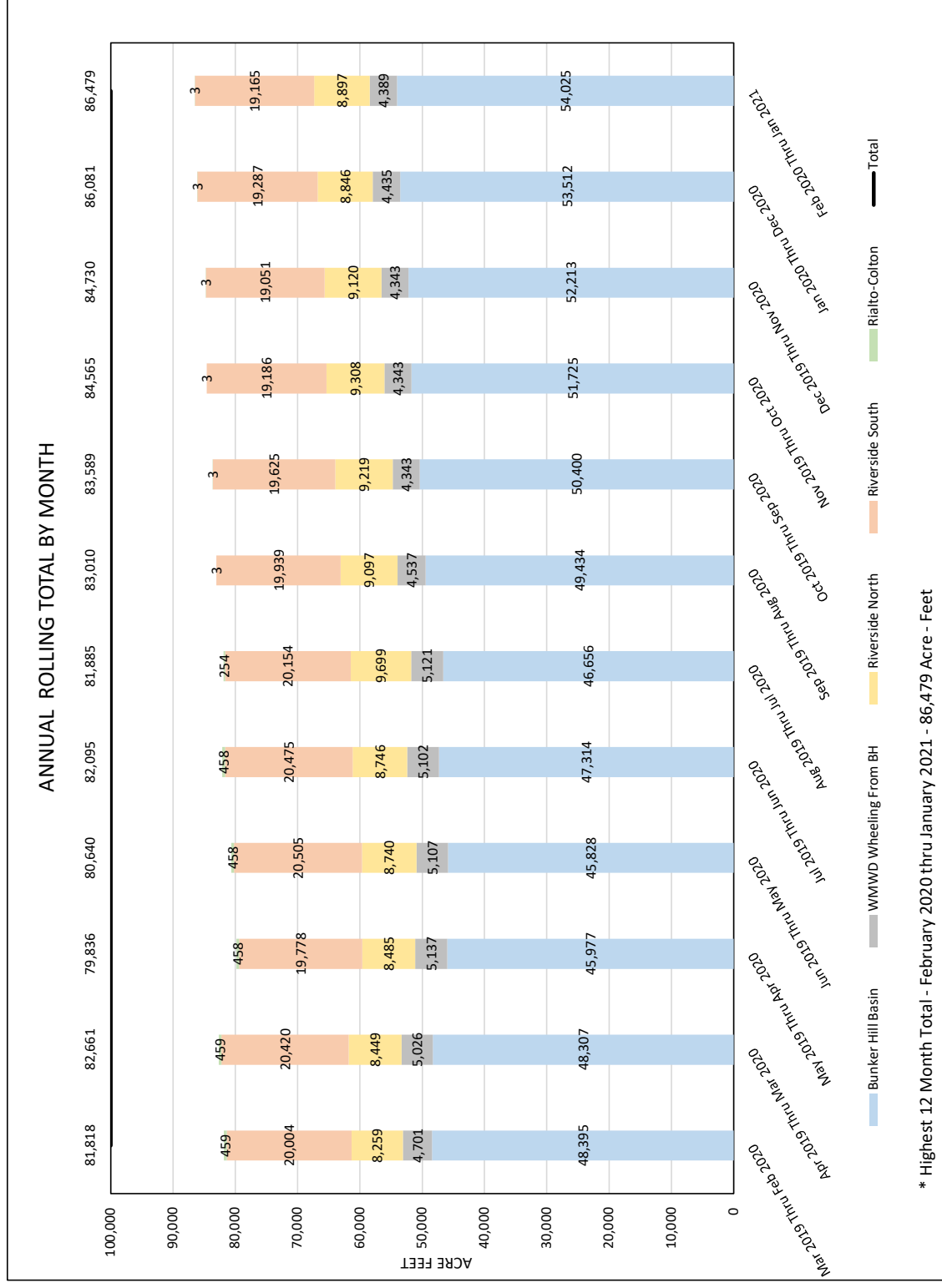


FIGURE 4: RPU WATER - TOTAL MONTHLY CONSUMPTION REPORT

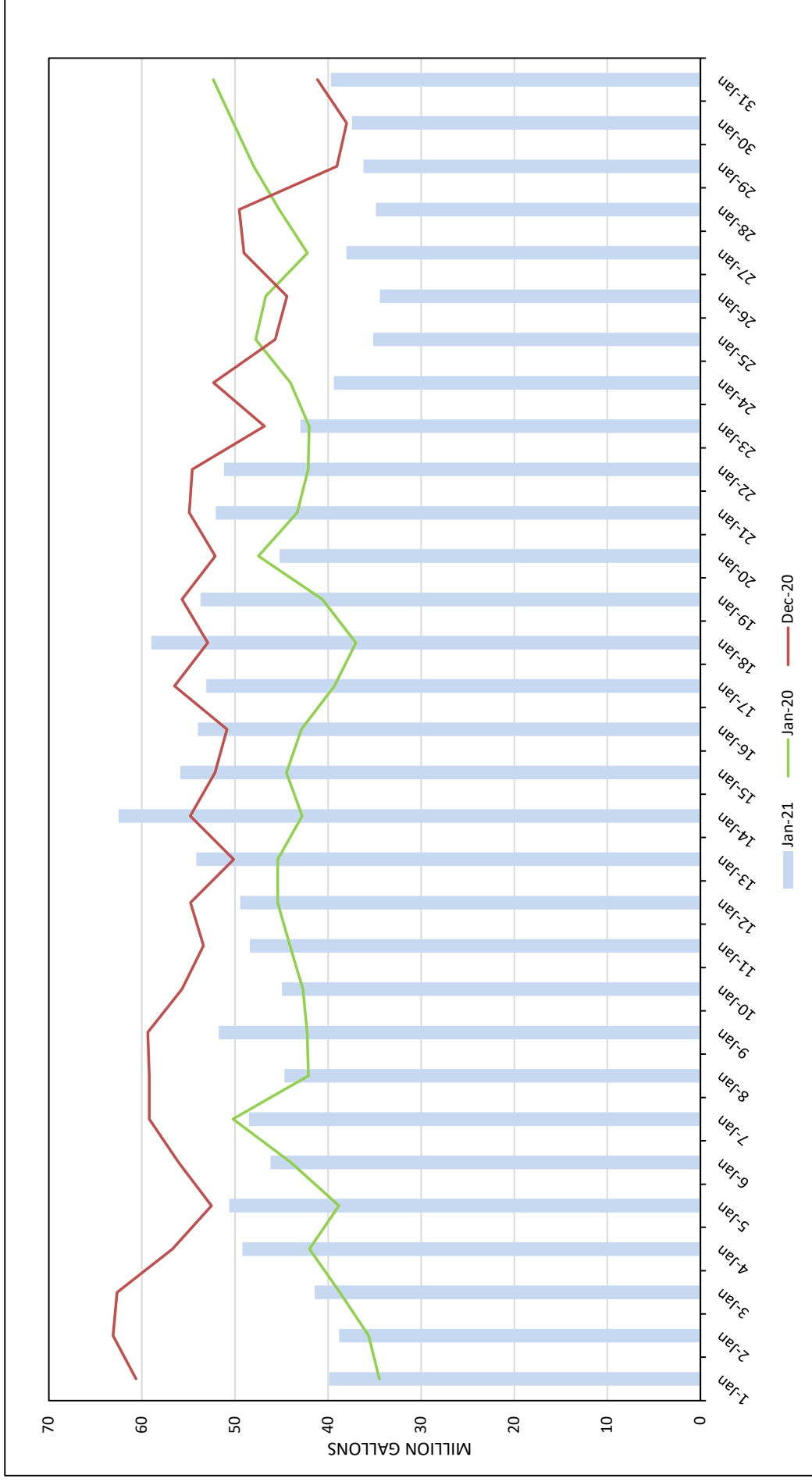


FIGURE 5: RPU WATER - TOTAL GPCD AND R-GPCD ANNUAL ROLLING

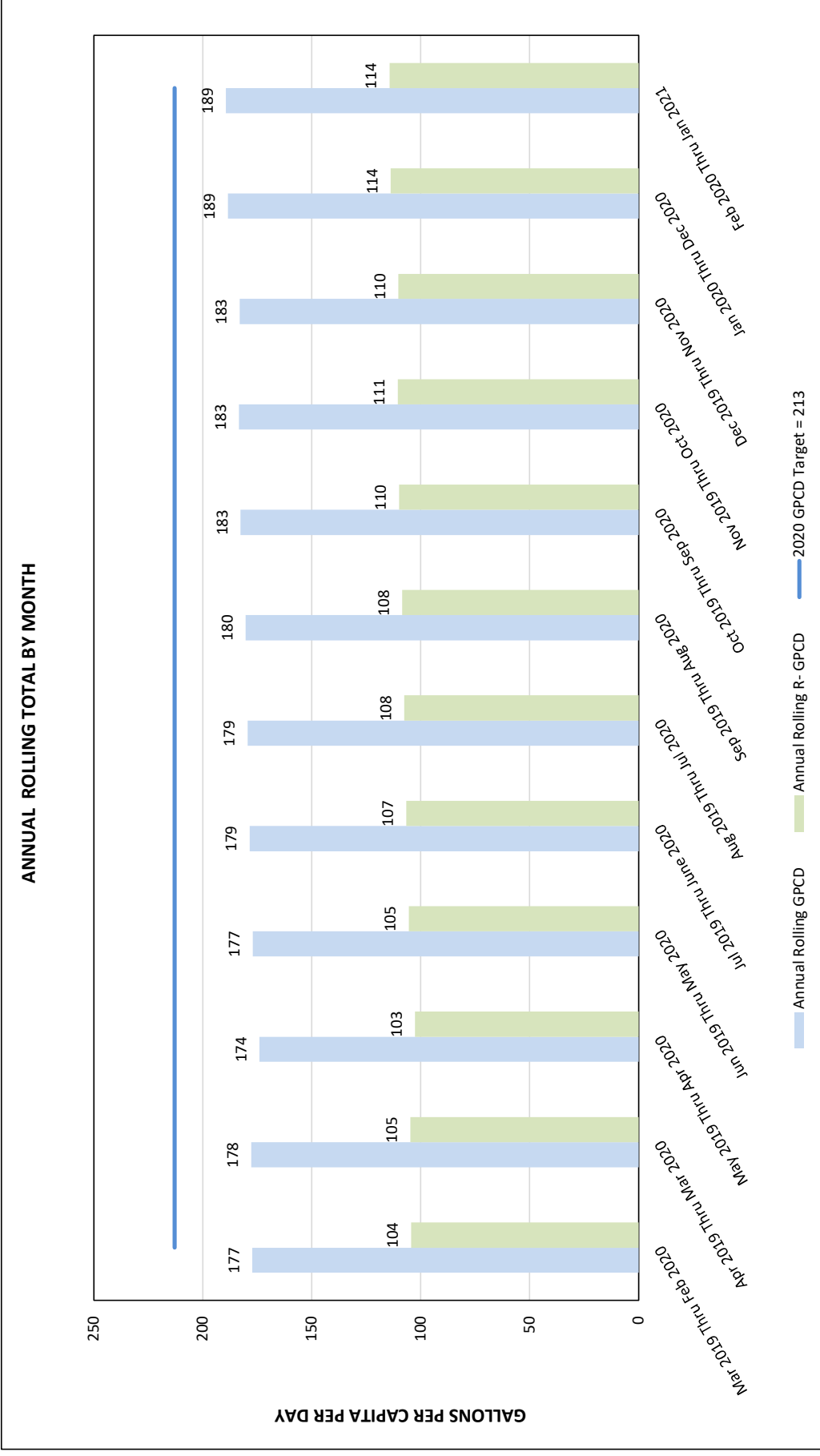
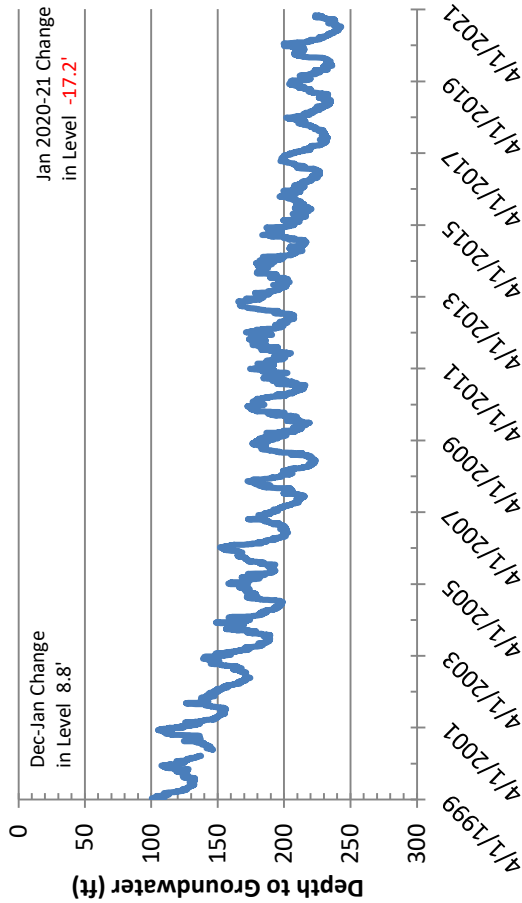
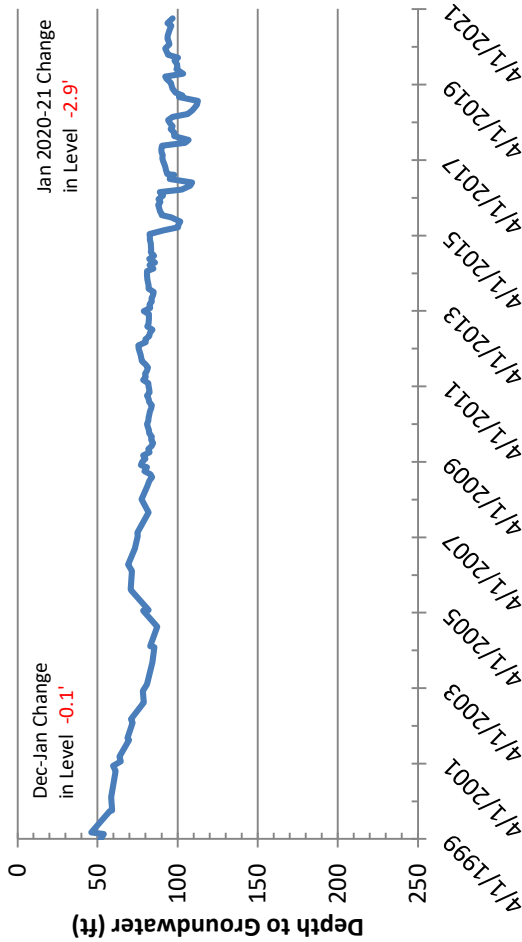


Figure 6: Basin Groundwater Levels

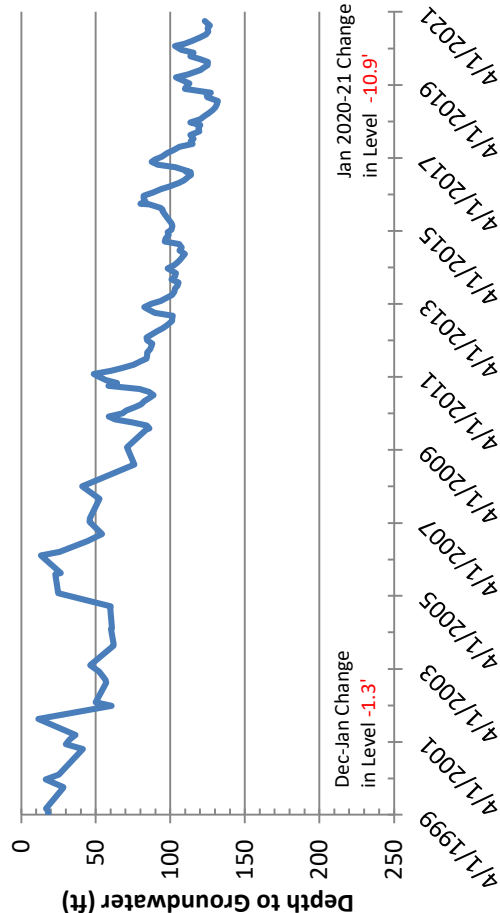
Bunker Hill Basin
Sierra High School (USGS)



Rialto-Colton Basin
Johnson 1



Riverside North Basin
Flume 5



Riverside South Basin
Cunningham

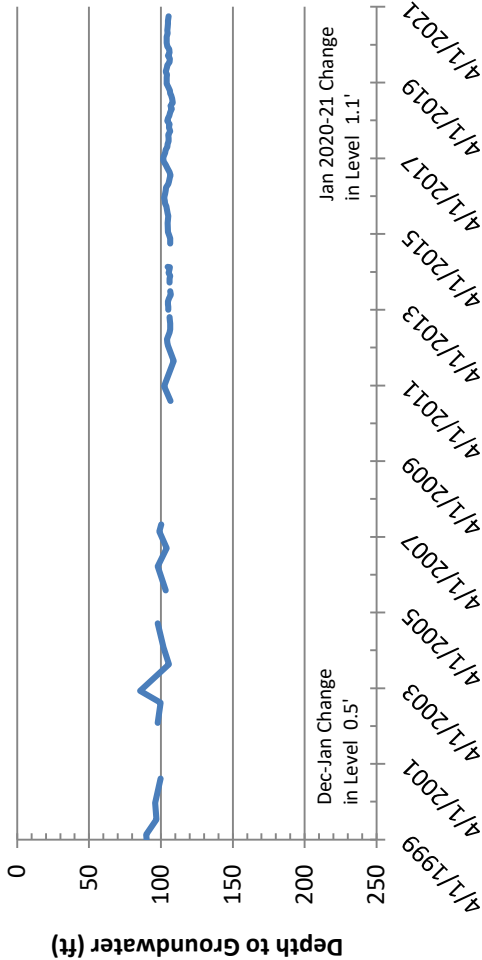


Figure 7: Groundwater Basin Vicinity Map

