

APRIL 4, 2018

REPORT OF THE WATERMASTER ENGINEER ON HYDROLOGIC CONDITIONS

♣ Baldwin Park Key Well (see attached graph)

- ➤ Located in the central portion of the San Gabriel Valley within the City of Baldwin Park and used as a general indication of water elevations throughout the San Gabriel Valley
- ➤ One vertical foot is equivalent to about 8,000 acre-feet of groundwater in the Main Basin
- ➤ On February 23, 2018, the Baldwin Park Key Well groundwater elevation was 183.6 feet.
- ➤ On March 23, 2018, the Baldwin Park Key Well groundwater elevation was 182.8 feet. The historical low was 172.2 feet on September 30, 2016. A decrease of 0.2 feet from the prior week. A decrease of about 1 foot from the prior month.
 - ❖ No change from one year ago. Includes about 166,000 acre-feet of untreated imported water in cyclic storage accounts (about 128,500 acrefeet in cyclic storage accounts and about 37,500 acre-feet in MWD Pre-Delivery account), which represents about 21 feet of groundwater elevation at the Key Well.

♣ Rainfall (see attached graphs)

- > Data are readily available on a daily basis and are indicative of comparative amount of rainfall in the San Gabriel Valley (percent of average)
- > Puddingstone Dam as of March 26, 2018
 - ❖ Average rainfall from July 1st through March 31st of each year is 16.10 inches
 - ❖ Rainfall during July 1, 2017 through March 26, 2018 is 6.76 inches, which is 42 percent of average
 - ❖ Rainfall during July 1, 2016 through March 31, 2016 was 20.43 inches, which was 127 percent of average
 - ❖ Rainfall last year (during July 1, 2016 through June 30, 2017) was 20.81 inches, which was 115 percent of average
- Los Angeles Civic Center as of March 26, 2018
 - ❖ Average rainfall from July 1st through March 31st of each year is about 12.3 inches
 - ❖ Rainfall during July 1, 2017 through March 26, 2018 is 4.68 inches, which is 34 percent of average

Report of the Watermaster Engineer on Hydrologic Conditions – April 4, 2018 (continued)

- ❖ Rainfall during July 1, 2016 through March 31, 2016 was 18.59 inches, which was 134 percent of average
- ❖ Rainfall last year (during July 1, 2016 through June 30, 2017) was 19.00 inches, which was 125 percent of average

♣ Reservoir Storage and Releases

- There are three dams and reservoirs located along the San Gabriel River above San Gabriel Canyon. Their primary function is for flood control and also used to store watershed runoff for subsequent groundwater replenishment.
 - ❖ Cogswell Reservoir is located highest in the watershed and has a maximum storage capacity of 10,438 acre-feet
 - San Gabriel Reservoir is located downstream of and receives releases from Cogswell Reservoir, and has a maximum storage capacity of 44,106 acrefeet
 - Morris Reservoir is located downstream of and receives releases from San Gabriel Reservoir, and has a maximum storage capacity of 29,944 acrefeet. Releases from Morris Reservoir and San Gabriel Reservoir are used at local surface water treatment plants and used for groundwater replenishment
 - ❖ Total storage capacity is 84,488 acre-feet
 - ❖ Combined storage as of March 27, 2018 was 23,194 acre-feet (about 27 percent of capacity).
 - ❖ San Gabriel Reservoir inflow was 93 cfs and release was 0 cfs as of March 27, 2018.
 - ❖ Morris Reservoir inflow was 3 cfs and release was 30 cfs as of March 27, 2018. A portion of that release was diverted from the San Gabriel River at the Azusa Duarte intake for use by the Committee of Nine.

<u>Untreated Imported Water Deliveries</u>

Upper District

- ❖ USG-3 is located in San Gabriel Canyon just below Morris Dam, it represents Upper District's primary point of delivery of untreated imported water for groundwater replenishment to the San Gabriel Valley. The typical delivery rate is about 190 cfs (or about 375 acre-feet per day)
 - Upper District started deliveries through USG-3 on August 3, 2017 at 250 cfs in association with the planned pre-delivery of approximately 80,000 acre-feet during calendar year 2017. Upper District and Watermaster have agreed to pay MWD for a minimum of 16,000 acre-feet per year over each of the next five years commencing in December 2017
 - During August 2017, 15,239.4 acre-feet was delivered through USG-3

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- o During September 2017, 16,313.7 acre-feet was delivered through USG-3
- o During October 2017, 9,467.6 acre-feet was delivered through USG-3. USG-3 was shutoff on October 31, 2017.
- o USG-3 resumed deliveries on November 17, 2017 at 30 cfs and was shutoff on November 21, 2017. During November 2017, 183.1 acre-feet was delivered through USG-3.
- USG-3 resumed deliveries on December 29, 2017 at 190 cfs and shutoff on January 31, 2018. An estimated 13,500 acrefeet will be delivered.
 - During December 2017, 1,343.3 acre-feet was delivered through USG-3
 - During January 2018, 10,983.3 acre-feet was delivered through USG-3

➤ Three Valleys District

- ❖ Three Valleys District delivered an estimated 1,100 acre-feet through USG-3 during March 2018.
- ❖ Three Valleys District delivered an estimated 250 acre-feet through PM-26 during March 2018.
- ❖ Three Valleys District delivered an estimated 570 acre-feet to the San Gabriel Canyon Spreading Grounds during March 2018.

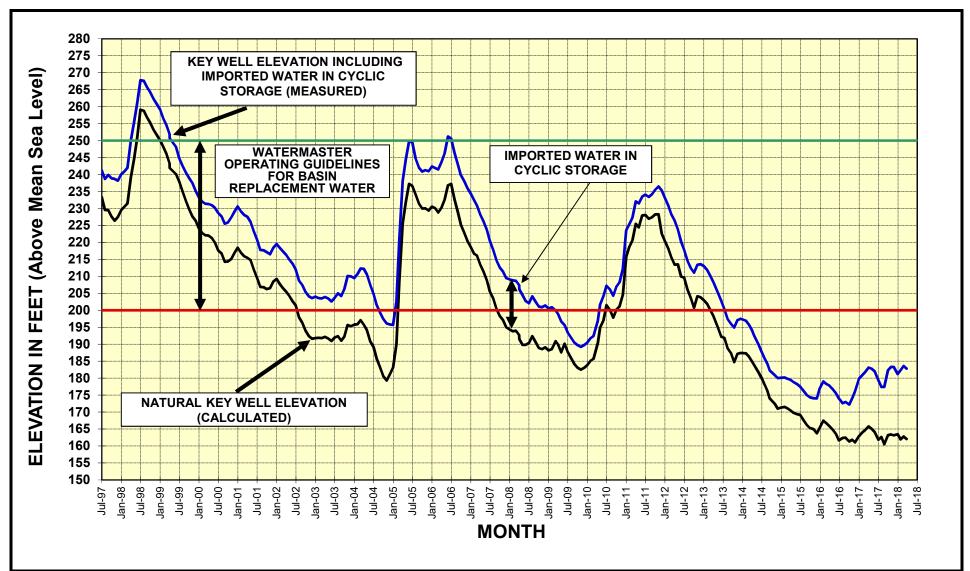
> San Gabriel District

❖ San Gabriel District delivered an estimated 1,800 acre-feet to the San Gabriel Canyon Spreading Grounds during March 2018.

Landfill Report

- ➤ Watermaster staff toured the following landfills during the month of March 2018:
 - ❖ Azusa Land Reclamation
 - Peck Road
 - ❖ Arcadia Reclamation Inc. (formerly Nu Way Arrow)
 - Manning Pit
- > During the tour, Watermaster staff found that each landfill appeared to operate consistent with the conditions under each landfill's permit.

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STETSON ENGINEERS INC.

Covina San Rafael Mesa, Arizona

WATER RESOURCE ENGINEERS

MAIN SAN GABRIEL BASIN WATERMASTER

BALDWIN PARK KEY WELL GROUNDWATER ELEVATION

