

DESCRIPTION OF GAGING STATION ON ARROYO DEL REY AT DEL REY OAKS

Location – Lat 36.5937, long -121.8383, located in Del Rey Park in the city of Del Rey Oaks, CA, or approx. 500 ft. upstream of the parking lot at the end of Angelus Way.

Establishment - Continuous recording station established October 1966 by the United States Geological Survey (USGS) was maintained through September 1978, at which time it was discontinued. Re-established as a recording station on October 7, 2002 by G. W. James (MPWMD).

Drainage area – 13.8 sq. mi.

Gage - Campbell Scientific (CS) CR300 data recorder/CS451-7.25 psig pressure transducer system. Gage housing consists of steel recorder shelter with two-inch galvanized pipe used as conduit and intake. Conduit runs approximately 10 ft. down right bank, attached to existing, partially submerged V-notch weir. Staff gage at left bank ranges from 2.8 to 6.7 ft.

History – Continuous recording station operated by the USGS during Water Years 1967 through 1978. Station re-occupied by MPWMD in October 2002 using a CS CR510 recorder. Current CS CR300 recorder installed June 6, 2019.

Reference and benchmarks - Brass disc at partially submerged V-notch weir – elevation unknown.

Channel – One channel at low to medium stages. Channel at flows over right bank into park at high flows. Left bank is steep and heavily vegetated. Right bank is steep, composed mainly of mud.

Control - Low and medium stage control is the channel downstream of gage, and is prone to periodic, heavy vegetation growth that is cleared by crews several times per year. Low footbridge approx. 50 ft. downstream of gage. Likely causes backwater at high flows. Creek may also flow overbank (right bank) at high flows.

Discharge measurements – Low and medium stage measurements are made by wading within 500 ft. upstream or downstream of gage. To date no high flow measurements above wading have been obtained by MPWMD.

Floods – The Flood of February 3, 1998 flowed overbank flooding a portion of Del Rey Park.

Point of zero flow – 2.7 ft. gage datum, varies due to scour and fill.

Winter flow - No ice.

Regulation – none.

Diversion – Numerous ground water production wells upstream of gage.

Accuracy - Stage records are good. Computed records are fair below 20 cfs, and poor above 20 cfs due to lack of discharge measurements and poor rating definition at medium/high end flows

Cooperation -