

PRICKLY PEAR WASH
FCD GAGE ID# 08107

STATION DESCRIPTION

LOCATION - The gage is located in the city of Phoenix, near Jomax and 40th Street in what is called John Teets Park. It is at latitude N 33° 43' 15.9" and longitude W 111° 59' 24.0". Located in S06 T4N R4E, in the Curry's Corner 7.5-minute quadrangle.

ESTABLISHMENT - The gage was installed on June 1, 2017.

DRAINAGE AREA – 1.38 mi² via USGS Streamstats.

GAGE - The gage is a pressure transducer type instrument. The PT diaphragm is at gage height 0.70 feet gage height, levels of July 3, 2017. The PT is on the left side of the leftmost culvert.

There is no crest gage at this site.

There are no staff gages at this site.

ZERO GAGE HEIGHT – Zero gage height is defined as the concrete apron for the culverts. It is defined as 1,730.253 feet NAVD88, levels of July 3, 2017.

HISTORY – Gaging established on June 1, 2017. No previous gaging history at this location.

REFERENCE MARKS

RM-1 is the top of a stormwater drain medallion located on the upstream headwall of the culvert entrance. It is at elevation 5.500 feet gage height, and 1,735.753 feet NAVD88, levels of July 3, 2017.

RM-2 is a rebar located about 15 feet east of the station tube on the upstream left bank. It is at elevation 4.371 feet gage height and 1,734.624 feet NAVD88, levels of July 3, 2017.

RM-3 is a chiseled 'X' on the box part of the culvert on the east side of North 43rd Way, about 10 feet west of the station tube. It is at elevation 4.761 feet gage height and 1,735.014 feet NAVD88, levels of July 3, 2017.

CHANNEL AND CONTROL - The channel is rough concrete up and downstream of the culvert crossing of 43rd Way. The culverts can pass about 1,500 cfs. The culverts act as a control for flows through its barrels.

The culverts are the control for flows in the wash. There are three identical barrels with dimensions of 10-feet wide, by 4-feet high, and about 81 feet in length.

The road elevation of 43rd Way is at about 6.0 feet gage height, and flow will begin to flow across the road as a broad crested weir.

RATING - The current rating is Rating #1, dated June 1, 2017. The rating was developed using surveyed data in a HEC-RAS model of cross sections and culverts. The rating should be calibrated with indirect measurements to verify its reliability.

DISCHARGE MEASUREMENTS - Direct measurements could be made by wading in the area near the gage. Higher flows can be measured by indirect methods downstream from the culverts.

POINT OF ZERO FLOW – Is about 0.0 feet gage height, levels of July 3, 2017.

FLOODS – No floods recorded since installation.

REGULATION - Undetermined

DIVERSIONS - None known

ACCURACY - Poor

JUSTIFICATION – Undetermined.

UPDATED - July 5, 2017
 DE Gardner