Centennial Tributary at Dobbins Road
FCD Gage ID# 5049

Station Description

LOCATION – The station is located in western Maricopa County, southeast of Harquahala Valley. It is near the intersection of Dobbins Road and 435th Avenue. Latitude 33° 21' 55.0" North; Longitude 112° 59' 39.0" West. Located in S05 T1S R7W, in the Gillespie 7.5-minute quadrangle.

ESTABLISHMENT - The gage was installed September 26, 2012.

DRAINAGE AREA – 2.47 mi^2 via Streamstats

GAGE - The gage is a pressure transducer type instrument. The PT diaphragm is at gage height 1.20 feet, levels of January 13, 2015.

There is one crest-stage gage at this site, with a pin elevation of 1.16 feet gage height, levels of January 13, 2015.

There is no staff gage at this site.

ZERO GAGE HEIGHT – Zero gage height is currently set to a point 1.20 feet below the elevation of the pressure transducer diaphragm, or estimated to be 993.00 feet NGVD29.

HISTORY – Gaging established on September 26, 2012. No previous gaging history at this location.

REFERENCE MARKS

RP-1 is a white spot painted on the top of a rock about 35 feet northeast of the station tube. Elevation is 13.308 feet gage height, levels of January 13, 2015.

RM-1 or XS1LB is a rebar on the left bank about 200 feet upstream from the gage cross section. Elevation is 14.526 feet gage height, levels of January 13, 2015.

RM-2 or XS1RB is a rebar on the right bank about 200 feet upstream from the gage cross section. Elevation is 11.012 feet gage height, levels of January 13, 2015.

RM-3 or XS2LB is a rebar on the left bank at the gage cross section. Elevation is 12.184 feet gage height, levels of January 13, 2015.

RM-4 or XS2RB is a rebar on the right bank at the gage cross section. Elevation is 10.279 feet gage height, levels of January 13, 2015.

RM-5 or XS3LB is a rebar on the left bank about 200 feet downstream from the gage cross section. Elevation is 11.482 feet gage height, levels of January 13, 2015.

RM-6 or XS3RB is a rebar on the right bank about 200 feet downstream from the gage cross section. Elevation is 8.039 feet gage height, levels of January 13, 2015.

CHANNEL AND CONTROL - The channel is natural downstream from the gage. The level sensor is located on the left bank of the wash.

The control for the gage is not well defined at low flows. The channel is the control at higher stages.

RATING - The current rating is Rating #1, dated September 26, 2012. The rating developed from geometry of three cross sections input as an HEC-RAS model. No direct or indirect measurements have been made as of this date.

DISCHARGE MEASUREMENTS - Direct measurements could be made in the natural wash. Indirect measurements could be made in a section about 200 feet upstream and downstream from the gage.

POINT OF ZERO FLOW - The PZF is at about 0.8 feet gage height as of January 2015.

FLOODS – The highest discharge recorded is 269 cfs and 2.82 feet gage height from an event of March 1, 2014.

REGULATION - None

DIVERSIONS - None

ACCURACY - Fair

JUSTIFICATION - Monitor flows into Centennial Wash from this location upstream of the railroad crossing of Centennial Wash.

UPDATED - January 14, 2015
D E Gardner