BASELINE RD at 43rd AVE BASIN

FCDMC GAGE ID # 66407

STATION DESCRIPTION

LOCATION

The station is located on a basin at the northeast corner of Baseline and 43rd Avenue. The station is located at latitude 33° 22' 47.2" and longitude W112° 09' 02.5". It is in S34, T1N, R2E.

ESTABLISHMENT

The gage was established on October 1, 2015.

DRAINAGE AREA

The drainage area of the gage is undetermined.

HISTORY

No previous gaging at this location. Station established on October 1, 2015.

GAGE INFORMATION

There is one pressure transducer instrument located at the outlet of the basin which is located at the western side of the basin. Transducer elevation is at 0.20 feet gage height, levels of October 13, 2015.

ZERO GAGE HEIGHT

Zero is currently defined as the elevation of the invert of the inlet, 0.000 feet gage height and 1,023.951 feet NAVD88, levels of October 13, 2015 and February 27, 2017.

REFERENCE MARKS

BM66407 is an FCDMC brass cap located near the station tube at the top of the west end of the basin. It is at elevation 10.474 feet gage height and 1,034.425 feet NAVD88, levels of October 13, 2015 and February 27, 2017.

RP-1 is a chiseled 'x' located on the headwall of the inlet. Elevation is 7.545 feet gage height and 1,031.496 feet NAVD88, levels of October 13, 2015 and February 27, 2017.

CHANNEL AND CONTROL

The gage is installed at the outlet of the basin near northwest corner of the basin. The outlet culvert is a 60-inch circular concrete pipe of unknown length. The top of the basin is at approximately 12 feet.

RATING

A discharge rating was calculated from some assumed parameters input to an HY-8 model. As-builts and storm drain maps are not available so several end parameters of the principal outlet were assumed.

The capacity rating was created using contour data and a GIS analysis. The rating goes back to the start of the period of record.

DISCHARGE MEASUREMENTS

Discharge measurements are not possible at this location.

POINT OF ZERO FLOW

Zero flow is defined as the invert of the inlet of the outlet.

FLOODS

Since installation, the greatest volume in the basin occurred on October 13, 2018 with a peak stage of 5.5 feet gage height, 11.9 acre-feet and approximately 26 percent full.

REGULATION

The basin regulates water flow.

DIVERSIONS

No diversions are anticipated to be found in the watershed.

ACCURACY

No accuracy at this time.

JUSTIFICATION

Provide level data in this basin for flood warning for the city of Phoenix.

UPDATE:

February 14, 2024
DE Gardner