

**SALT RIVER AT 51ST AVENUE
FCD GAGE ID# 4753**

STATION DESCRIPTION

LOCATION - The gage is located on the 51st Avenue bridge crossing of the Salt River. Latitude 33° 24' 19.8" North; Longitude 112° 10' 08.3" West. Located in S19 T1N R2E, in the Fowler 7.5-minute quadrangle.

ESTABLISHMENT - The gage was installed April 27, 2011.

DRAINAGE AREA – Not Determined

GAGE - The gage is a non-submersible pressure transducer type instrument connected with a gas purge orifice. The orifice opening is at gage height 1.60 feet gage height. The station is located on the downstream side of 51st Avenue.

There are three crest-stage gages located on the pier with the orifice.

There are several staff gage plates on the orifice pier, with a range from 1.0 feet to about 13.0 feet.

ZERO GAGE HEIGHT – Zero gage height is defined as 1,050.00 feet NGVD 1929. For the purpose of the gaging, the staff gage on the orifice pier defines where zero gage height begins.

HISTORY – Gaging established on April 27, 2011. The USGS had a gage at this location for several years prior.

REFERENCE MARKS

No references have been set or identified.

CHANNEL AND CONTROL - The control for this gage is the main channel.

RATING - The current rating is Rating #1, dated April 27, 2011. The rating was developed by the USGS for their gage station.

DISCHARGE MEASUREMENTS – Direct measurements are not possible due to height of bridge crossing.

POINT OF ZERO FLOW - The PZF has not been determined.

FLOODS – No runoff has been recorded since installation in April 2011.

REGULATION – A number of dams upstream regulate flow in the Salt River.

DIVERSIONS – Granite Reef Diversion structure diverts water to canals on the north and south sides of the river for irrigation and domestic purposes.

ACCURACY - Fair

JUSTIFICATION – Monitor flow in the river for MCDOT to manage low-flow road closures.

UPDATED - July 2, 2014
 DE Gardner