



Water-Data Report 2007

**385557119055401 Local number 108 N12 E26 06ADBB1**

Basin and Range basin-fill aquifers  
Undefined Aquifer  
Lyon County, NV

LOCATION.--Lat 38°56'08.7", long 119°06'43.9" referenced to North American Datum of 1983, in NW ¼ SE ¼ NE ¼ sec.6, T.12 N., R.26 E., Lyon County, NV, Hydrologic Unit 16050303.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 300 ft. Upper casing diameter 16. in, top of first opening -2 ft, bottom of last opening 300 ft.

DATUM.--Land-surface datum is 4478 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum, UNDEFINED BEGIN DATE to present.

REMARKS.--Walker Lake is a perennial, natural terminal lake that became at-risk because of upstream agricultural diversions. Between 1882 and 1994, upstream diversions caused Walker Lake to decline about 140 feet and the total dissolved solids (TDS) concentrations to increase from 2,500 mg/L to 13,300 mg/L. The Lahontan cutthroat trout (LCT), a threatened species that is native to Walker Lake, has adapted to the high TDS of terminal basins. However, diversions have lowered lake levels and increased TDS to concentrations that threaten the survival of the LCT. The objectives of this project are to develop (1) an improved water budget for Walker Lake and (2) the capability to predict how changes in irrigation practices in and below Mason Valley will affect flows in the lower Walker River so alternatives for supplementing flows can be evaluated.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM**

[Measurement method: O, observed. Water-level status: W, well was destroyed (no subsequent water levels should be recorded).]

Date	Water level	Measurement method	Water-level status
Dec 1, 2006		O	W