



Water-Data Report 2008

**390658118583801 Local number 110A N15 E27 33CCBB1**

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

LOCATION.--Lat 39°06'57.7", long 118°58'38.4" referenced to North American Datum of 1983, in NW ¼ SW ¼ sec.33, T.15 N., R.27 E., Lyon County, NV, Hydrologic Unit 16050303.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 15 ft. Upper casing diameter 2. in; top of first opening 10 ft, bottom of last opening 15 ft.

DATUM.--Land-surface datum is 4236.59 ft above National Geodetic Vertical Datum of 1929. Measuring point: Finished at land surface datum, 0.0 ft above land-surface datum, Mar. 30, 2005, 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: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Nov 1, 2007	2.08	T	--	May 21, 2008	1.68	T	--
14	2.16	T	--	Jul 2	2.62	T	--
Dec 18	2.05	T	--	Aug 28	2.62	T	--
Apr 9, 2008	2.32	T	--				

Highest: 1.68 May 21, 2008

Lowest: 2.62 Jul 02, 2008 Aug 28, 2008