



Water-Data Report 2008

**385343118473101 Local number 110A N12 E29 19BBBB2**

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

LOCATION.--Lat 38°53'42.6", long 118°47'31.0" referenced to North American Datum of 1983, in NW ¼ NW ¼ NW ¼ sec.19, T.12 N., R.29 E., Mineral County, NV, Hydrologic Unit 16050303.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 126 ft. Upper casing diameter 2 in; top of first opening undefined, bottom of last opening undefined.

DATUM.--Land-surface datum is 4077.75 ft above National Geodetic Vertical Datum of 1929. Measuring point: Lowest side of pvc pipe, 1.8 ft above land-surface datum, Nov. 16, 2004, to Mar. 27, 2008; Top of PVC cap with flip lid openend, 2.1 ft above land-surface datum, Mar. 27, 2008, 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; Z, other conditions existed that would affect the measured water level (explain in remarks).]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 30, 2007	35.60	T	--	Apr 17, 2008	36.13	T	--
Nov 15	35.59	T	--	27	36.13	T	--
Dec 17	35.39	T	--	May 8	36.28	T	--
Jan 16, 2008	35.33	T	--	14	36.27	T	--
Feb 20	33.59	T	--	Jul 2	35.71	T	--
Mar 18	32.98	T	Z	24	34.80	T	--
27	32.96	T	Z	Sep 4	33.19	T	--
27	36.22	T	--	30	33.30	T	--

Highest: 33.19 Sep 04, 2008

Lowest: 36.28 May 08, 2008