



Water-Data Report 2008

383919118454101 Local number 110B N09 E29 08ADC 1

Basin and Range basin-fill aquifers
Valley Fill
Mineral County, NV

LOCATION.--Lat 38°39'18.6", long 118°45'41.0" referenced to North American Datum of 1983, in SW ¼ SE ¼ NE ¼ sec.8, T.9 N., R.29 E., Mineral County, NV, Hydrologic Unit 16050304.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 230 ft. Upper casing diameter 8. in; top of first opening 190 ft, bottom of last opening 230 ft.

DATUM.--Land-surface datum is 4092 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of steel casing north side, 0.6 ft above land-surface datum, Feb. 14, 2007, 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; S, steel tape. Water-level status: - - , static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 30, 2007	154.24	T	--	May 14, 2008	155.31	T	--
Nov 15	154.34	T	--	Jun 10	155.48	T	--
Dec 17	154.66	T	--	Jul 2	155.68	T	--
Jan 16, 2008	154.75	T	--	24	155.92	T	--
Feb 20	154.84	T	--	Sep 4	156.60	T	--
Mar 18	154.90	T	--	30	157.07	T	--
Apr 8	154.84	S	--				

Highest: 154.24 Oct 30, 2007

Lowest: 157.07 Sep 30, 2008