



Water-Data Report 2007

385759119200001 Local number 107 N13 E24 30AACC1

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

LOCATION.--Lat 38°57'59", long 119°20'00" referenced to North American Datum of 1927, in SW ¼ NE ¼ NE ¼ sec.30, T.13 N., R.24 E., Lyon County, NV, Hydrologic Unit 16050302.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth undefined. Upper casing diameter undefined, top of first opening undefined, bottom of last opening undefined.

DATUM.--Land-surface datum is 4620 ft above National Geodetic Vertical Datum of 1929. Measuring point: ½-in hole in pump base west side, 0.0 ft above land-surface datum, Mar. 8, 1995, to present; Top of casing east side (pump removed), -0.3 ft above land-surface datum, Feb. 27, 2002, to present; ½-in hole in pump base on east side, 0.0 ft above land-surface datum, Mar. 5, 2003, 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; T, electric tape. Water-level status: P, site was being pumped; - , static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Nov 22, 2006		O	P	Feb 26, 2007	31.60	T	--

Highest: 31.60 Feb 26, 2007

Lowest: 31.60 Feb 26, 2007