Water-Data Report 2006

385003119085201 Local number 108 N11 E25 11AACC1

Basin and Range basin-fill aquifers
Undefined Aquifer

Lyon County, NV

LOCATION.--Lat 38°50′03″, long 119°08′52″ referenced to North American Datum of 1927, in SW ¼ NE ¼ NE ¼ sec.11, T.11 N., R.25 E., Lyon County, NV, Hydrologic Unit 16050303.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 256 ft. Upper casing diameter 12. in; top of first opening 106 ft, bottom of last opening 256 ft.

DATUM.--Land-surface datum is 4562 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing north side pump base within housing, 2.0 ft above land-surface datum, Dec. 28, 1981, to present; 3/4-in hole in pump base North side hold at outer edge pump base, -2.16 ft above land-surface datum, Feb. 17, 1994, 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: S, steel tape. Water-level status: - - , static.]

Date	Water level	Measurement method	Water level status
Mar 8, 2006	92.00	S	--