



Water-Data Report 2010

350810089430801 Local number Sh:R- 031

Mississippi embayment aquifer system
 Memphis Sand
 Shelby County, TN

LOCATION.--Lat 35°08'10", long 89°43'08" referenced to North American Datum of 1927, Shelby County, TN, Hydrologic Unit 08010210, at Kentwood Estates Drive, 0.8 mi east of Houston Levee Rd. Owner: Memphis Light, Gas and Water, City of Memphis.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 540 ft, cased to 500 ft, screened 500 to 540 ft.

DATUM.--Land-surface datum is 322 ft above National Geodetic Vertical Datum of 1929. Measuring point: Inside top of recorder shelter base plate, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--March 1989 to current year. Analog to digital (ADR) record March 1989 to October 1997, periodic tape measurements or monthly maximum-minimum recorder until May 2006; digital record May 2006 to current year. Discontinued digital and real-time recording on Feb. 25, 2010, periodic tape-down measurements only, from Mar. 31, 2010 to present.

GAGE.--Periodic measurements by USGS personnel and data collection platform -- 60-minute interval.

REMARKS.--Records poor. Missing records from Oct. 1 to Oct. 3, Oct. 29 to Oct. 31 and Aug. 17 to Sept. 3 due to lost power; Sept. 4 to Sept. 9 and Sept. 13 to Sept. 28 due to tape jumping off wheel. Water levels affected by pumpage for municipal and industrial water supply in the Memphis area.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 62.61 ft below land-surface datum, Apr. 4, 1989; lowest recorded, 107.71 ft below land-surface datum, July 25, 2006.

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
 WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
 DAILY MAXIMUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	93.72	---	95.80	---	---	---	---	---	---	---	---	---
10	93.47	---	94.68	---	---	---	---	---	---	---	---	---
15	91.02	---	---	95.21	---	---	---	---	---	---	---	---
20	91.38	---	---	---	---	---	---	---	---	---	---	---
25	90.68	---	---	---	---	---	---	---	---	---	---	---
Eom	94.20	---	---	---	---	---	---	---	---	---	---	---

WTR YR 2010 Highest 90.39 Apr. 26, 2010 Lowest 97.37 July 29, 2010

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