

HAMILTON COUNTY

351428085003600. Local number, Hm:O-15.

LOCATION.--Lat 35°14'28", long 85°00'36", Hydrologic Unit 06020001, at Smith Road and State Highway 58, near Snow Hill. Owner: Savannah Valley Utility District.

AQUIFER.--Knox Dolomite of Cambrian and Ordovician age.

WELL CHARACTERISTICS.--Drilled artesian test well, diameter 10 in., depth 262 ft, cased to 50 ft, open end.

INSTRUMENTATION.--Water-level recorder -- 60-minute intervals.

DATUM.--Elevation of land-surface datum is 735 ft above NGVD of 1929, from topographic map. Measuring point: Instrument shelf, 5.66 ft above land-surface datum.

REMARKS.--Records good. No missing record. Well previously published as "at Savannah Valley". Water level affected by pumping from municipal supply well 300 ft south. Negative values indicate water levels above land-surface.

PERIOD OF RECORD.--May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.99 ft above land-surface datum, Feb. 11, 1994; lowest, 22.45 ft below land-surface datum, Sept. 3, 1988.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

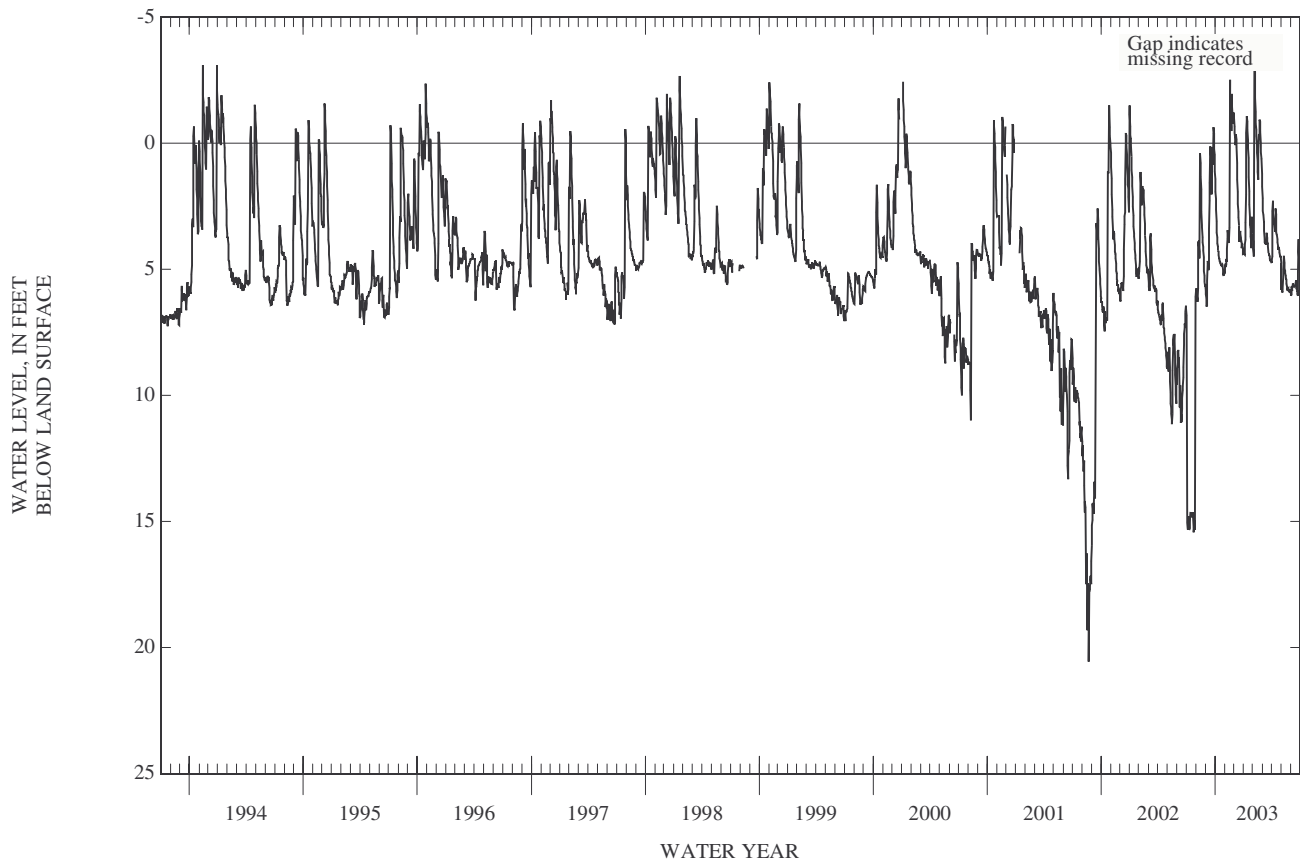
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.10	6.43	6.02	3.81	4.76	0.34	4.32	4.51	3.37	3.17	5.53	5.72
10	15.50	4.79	5.37	4.52	3.81	1.20	-0.66	-0.58	3.84	3.69	5.19	5.84
15	14.94	2.16	0.47	4.80	0.62	3.22	0.37	0.96	4.08	3.73	5.60	5.63
20	14.82	4.09	1.16	4.97	-0.45	3.63	3.17	-0.08	4.50	4.26	5.90	6.06
25	15.00	5.24	-0.24	5.25	-0.70	4.17	4.29	0.21	4.72	4.53	6.01	4.83
EOM	6.02	6.00	1.60	4.97	-1.05	4.54	3.71	2.54	4.80	5.97	6.11	5.25

WTR YR 2003

HIGHEST -4.99 MAY 6, 2003

LOWEST 15.69 OCT 27, 2002

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS
HAMILTON COUNTY—Continued

350750085045802. Local number, Hm:O-19.

LOCATION.--Lat 35°07'50", long 85°04'58", Hydrologic Unit 06020001, at Short Trail Spring Road 5.5 mi northwest of Ooltewah. Owner: Eastside Utility District.

AQUIFER.--Chepultepec Dolomite of Lower Ordovician age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 8 in., depth 72.96 ft, cased to 26 ft, open end; former production well.

INSTRUMENTATION.--Water-level recorder -- 15-minute intervals.

DATUM.--Elevation of land-surface datum is 698.5 ft above NGVD of 1929. Measuring point: Instrument shelf, 1.50 ft above land-surface datum.

REMARKS.--Records fair. Missing records March 20 to March 25. Water level affected by pumping from nearby municipal supply wells.

PERIOD OF RECORD.--May 1989 to current year.

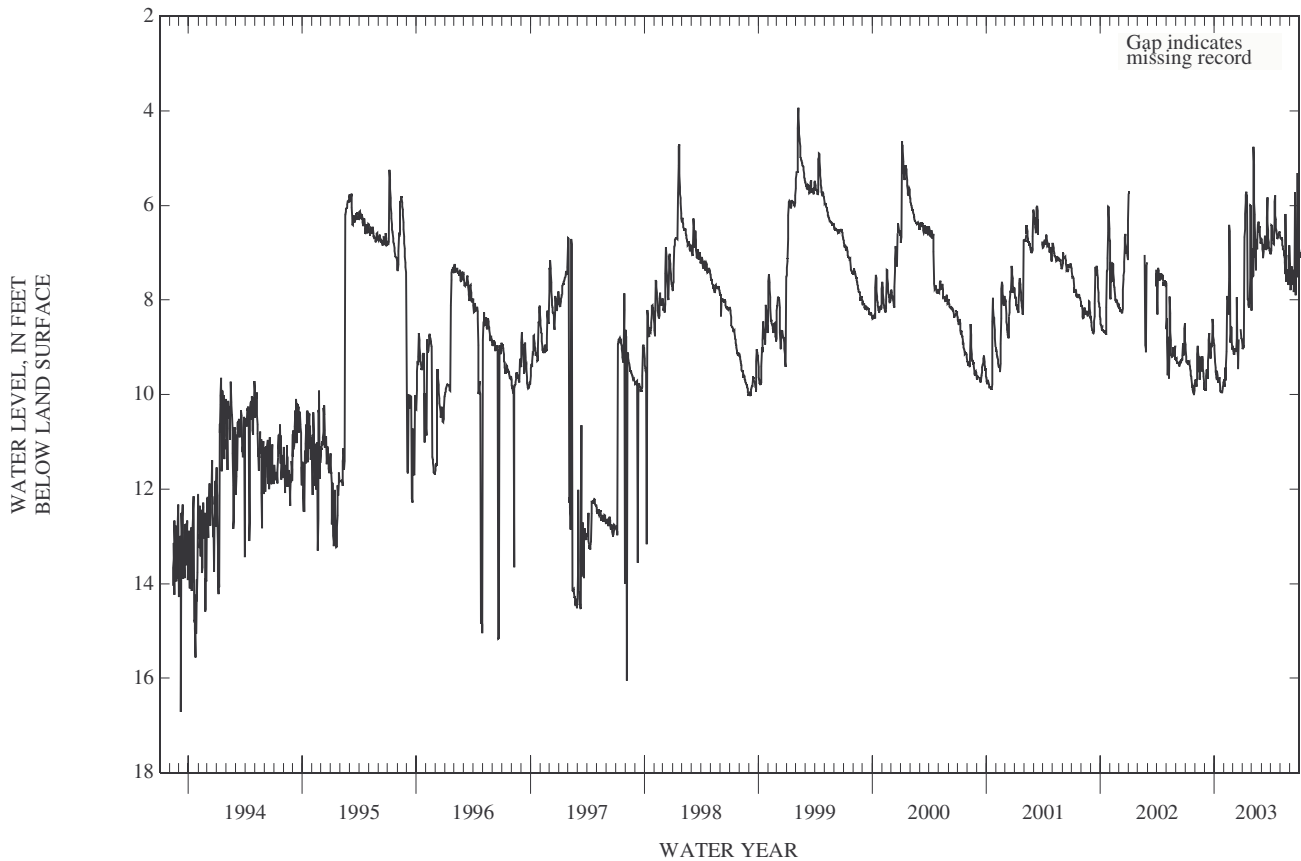
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.65 ft below land-surface datum, June 22, 1989; lowest, 54.29 ft below land-surface datum, Apr. 18, 1990.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.95	10.31	10.34	10.06	10.12	9.16	9.64	8.39	7.79	7.36	7.46	7.95
10	9.97	9.80	10.15	10.12	9.29	9.07	6.05	6.58	7.61	7.57	7.77	8.03
15	10.05	9.82	9.43	10.18	9.04	9.74	5.87	7.56	7.63	7.07	7.79	7.86
20	10.38	10.06	9.66	10.37	8.82	---	8.19	7.40	7.18	7.44	7.92	8.07
25	10.54	10.06	9.04	10.46	9.01	---	6.06	7.28	7.62	7.39	8.12	7.52
EOM	10.25	10.34	9.48	10.23	9.03	9.63	8.30	7.52	7.80	7.41	8.04	7.83

WTR YR 2003 HIGHEST 3.65 MAY 6, 2003 LOWEST 10.65 OCT 27, 2002

LOWEST MONTHLY WATER LEVEL



HAYWOOD COUNTY

353232089115601. Local number, Ha:H-007.

LOCATION.--Lat 35°32'32", long 89°11'56", Hydrologic Unit 08010208, 250 ft north of Beech Grove Road, 1.1 miles west of State Route 19, near Brownsville. Owner: Brownsville Power.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 290 ft, cased to 375 ft, screened 240 to 290 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute intervals.

DATUM.--Elevation of land-surface datum is 330 ft above NGVD of 1929. Measuring point: Top of casing, 1.1 ft above land-surface datum.

REMARKS.--Records good. No missing record. Water level affected by short periods of pumping at nearby wells.

PERIOD OF RECORD.--April 2003 to current year.

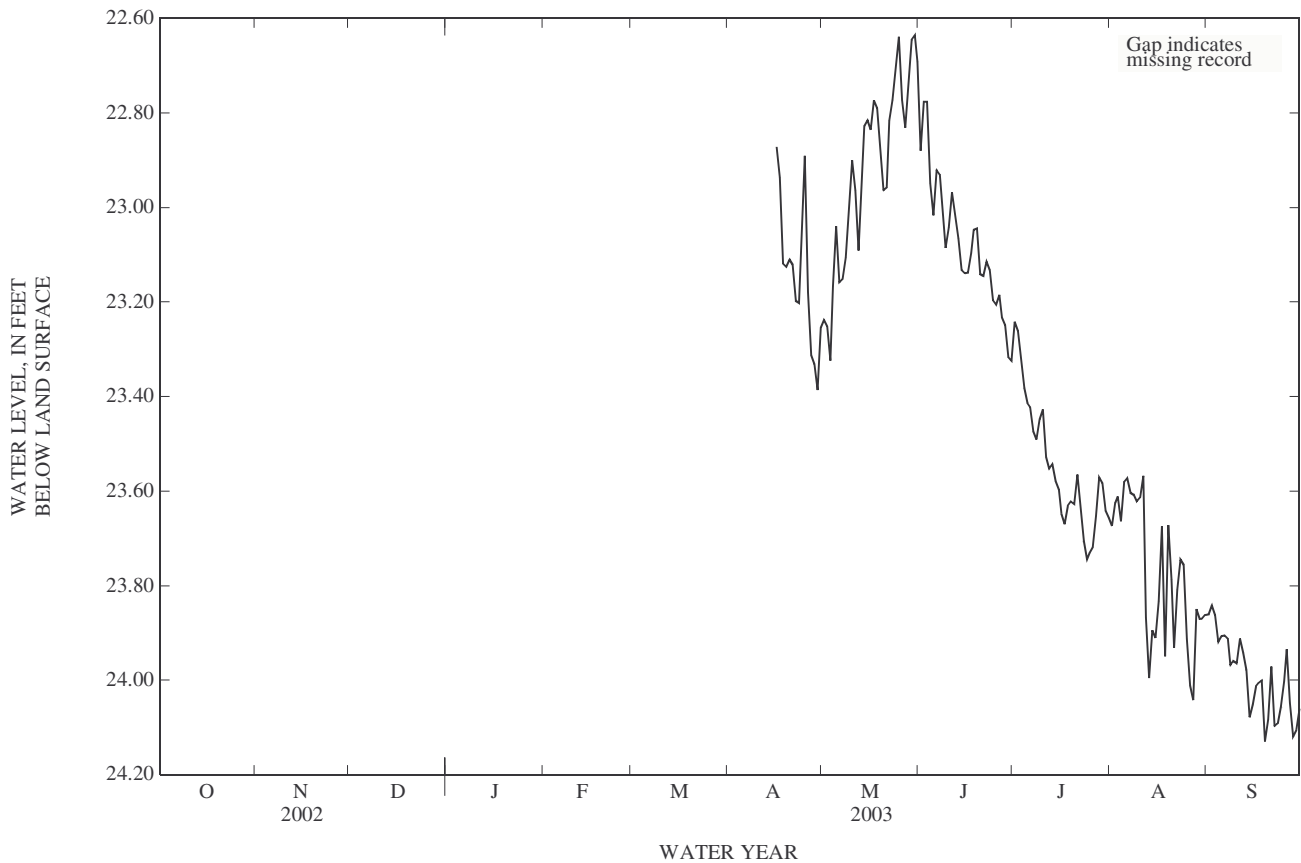
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.54 ft below land-surface datum, May 31, 2003; lowest, 25.62 ft below land-surface datum, Aug. 14, 2003.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	---	23.13	23.05	23.45	23.60	23.93
10	---	---	---	---	---	---	---	22.95	23.08	23.47	23.67	23.99
15	---	---	---	---	---	---	---	22.84	23.17	23.63	25.54	24.09
20	---	---	---	---	---	---	23.15	22.98	23.17	23.66	24.61	24.11
25	---	---	---	---	---	---	23.02	22.73	23.26	23.77	24.67	24.08
EOM	---	---	---	---	---	---	23.30	22.86	23.37	23.69	23.88	24.08

WTR YR 2003 HIGHEST 22.54 MAY 31, 2003 LOWEST 25.62 AUG 14, 2003

LOWEST MONTHLY WATER LEVEL



353839089493500. Local number, Ld:F-4.

LOCATION.--Lat 35°38'39", long 89°49'35", Hydrologic Unit 08010208, 1.1 mi north of State Highway 87 off Crutcher Lake Rd, at Fort Pillow State Park.
Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 to 6 to 3 in., depth 879 ft, cased to 869 ft, screened 869 to 879 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 437.05 ft above NGVD of 1929. Measuring point: Top of casing, 2.80 ft above land-surface datum.

REMARKS.--Missing records May 10 - June 13 and June 16-28.

PERIOD OF RECORD.--April 1966 to current year.

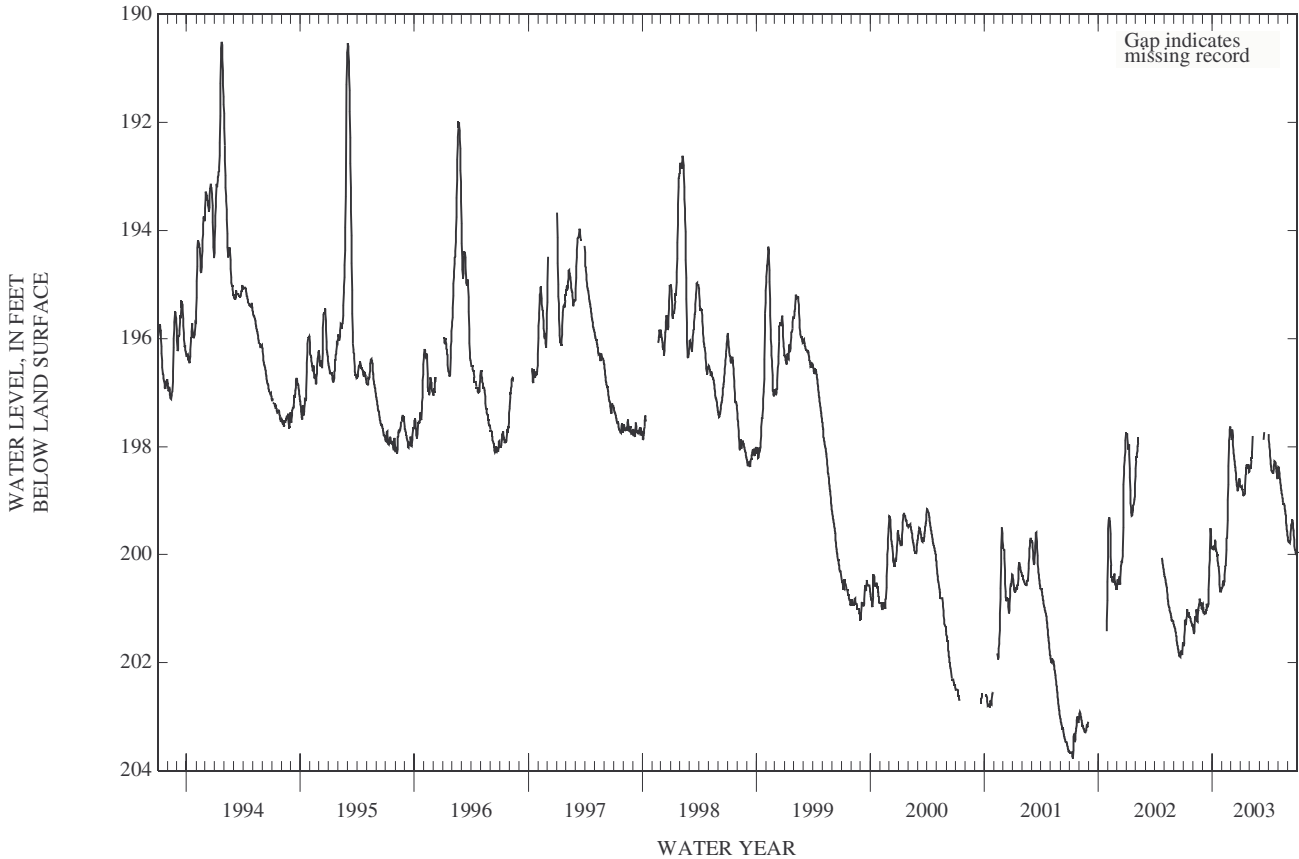
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 187.76 ft below land-surface datum, Apr. 7, 1975; lowest, 203.78 ft below land-surface datum, Oct. 10-11, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	201.27	201.31	201.08	199.84	200.59	197.73	198.79	198.35	---	198.28	198.64	199.79
10	201.22	201.05	201.08	199.81	200.29	198.19	198.91	---	---	198.46	198.87	199.47
15	201.12	201.07	200.98	200.04	199.79	198.46	198.81	---	197.79	198.49	199.04	199.46
20	201.15	200.92	200.48	200.23	198.84	198.71	198.33	---	---	198.28	199.16	199.88
25	201.25	200.93	199.58	200.67	197.81	198.76	198.35	---	---	198.47	199.44	200.00
EOM	201.40	200.99	199.87	200.64	197.76	198.75	198.43	---	197.92	198.37	199.74	199.97

WTR YR 2003 HIGHEST 197.61 FEB 25, 26, 2003 LOWEST 201.67 OCT 1, 2002

LOWEST MONTHLY WATER LEVEL



LINCOLN COUNTY

350034086422800. Local number, Li:G-1.

LOCATION.--Lat 35°00'34", long 86°42'28", Hydrologic Unit 06030002, on west side of Pepper Road at Taft well field, 0.8 mi south of State Highway 110, at Taft. Owner: Lincoln Count Board of Public Utilities.

AQUIFER.--Fort Payne Formation of early Mississippian age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 106.5 ft, cased to 106.5 ft, slotted from 53 to 87 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Altitude of land-surface datum is 904.00. Measuring point: Top of casing 2.10 ft above land-surface datum.

REMARKS.--Records fair. Missing records November 1 to November 9, January 30 to March 24. Water levels affected by pumpage from Taft Well field for municipal water supply.

PERIOD OF RECORD.--April 1992 to Sept. 1992, Oct. 1995 to current year.

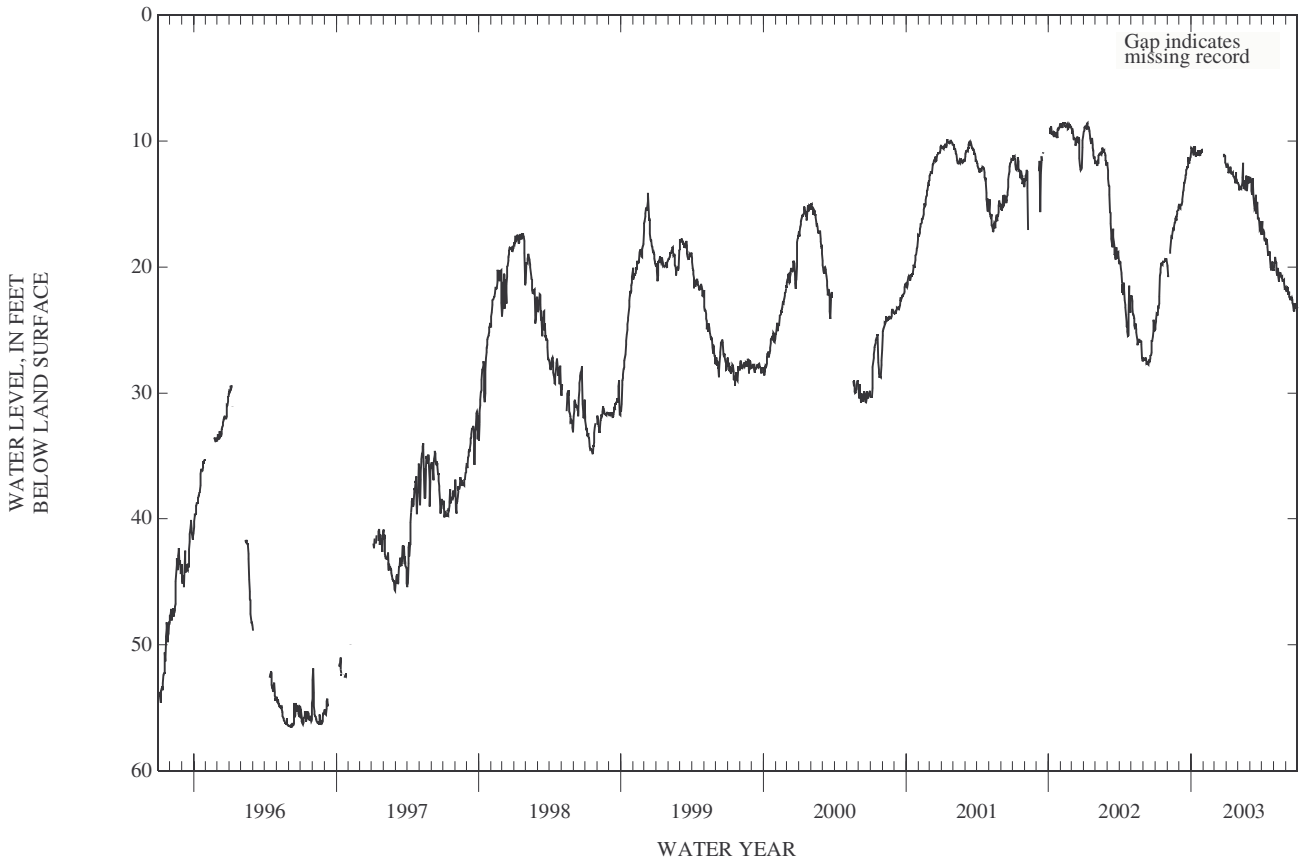
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.10 ft below land-surface datum, Feb. 6, 2002; lowest, 56.53 ft below land-surface datum, Sept. 7, 8, 1996.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.66	---	15.42	11.07	---	---	13.11	14.21	14.90	18.37	20.38	22.30
10	23.52	17.86	14.54	11.08	---	---	12.62	14.16	15.77	18.79	20.51	22.98
15	19.94	17.23	13.30	11.39	---	---	12.92	14.62	15.30	18.87	21.05	22.97
20	19.58	16.69	12.52	11.31	---	---	13.33	14.34	16.66	19.44	21.37	23.90
25	19.53	15.96	11.89	10.97	---	11.58	12.88	14.12	17.51	20.75	21.67	23.76
EOM	20.22	15.47	11.04	---	---	12.48	13.65	13.98	18.12	20.77	22.20	23.69

WTR YR 2003 HIGHEST 10.18 JAN 9, 2003 LOWEST 25.26 OCT 1, 2002

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS

SEVIER COUNTY

353922083345600. Local number, Sv:E-2.

LOCATION.--Lat 35°39'22", long 83°34'56", Hydrologic Unit 06010201, 3.3 mi southwest of Great Smoky Mountains National Park Headquarters, near Gatlinburg.

AQUIFER.--Elkmont Sandstone of Precambrian age.

WELL CHARACTERISTICS.--Drilled unused water-table well in phyllite, sandstone, diameter 6 in., depth 220 ft, cased to 27 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface is 2,150 ft above NGVD of 1929, from topographic map. Measuring point: Floor of recorder shelter 1.5 ft above land-surface datum.

REMARKS.--Records good, except for Dec. 20 through Jan. 21 and May 6-28. Highest water level readings may be influenced for short periods by surface inflow.

PERIOD OF RECORD.--May 1979 to current year.

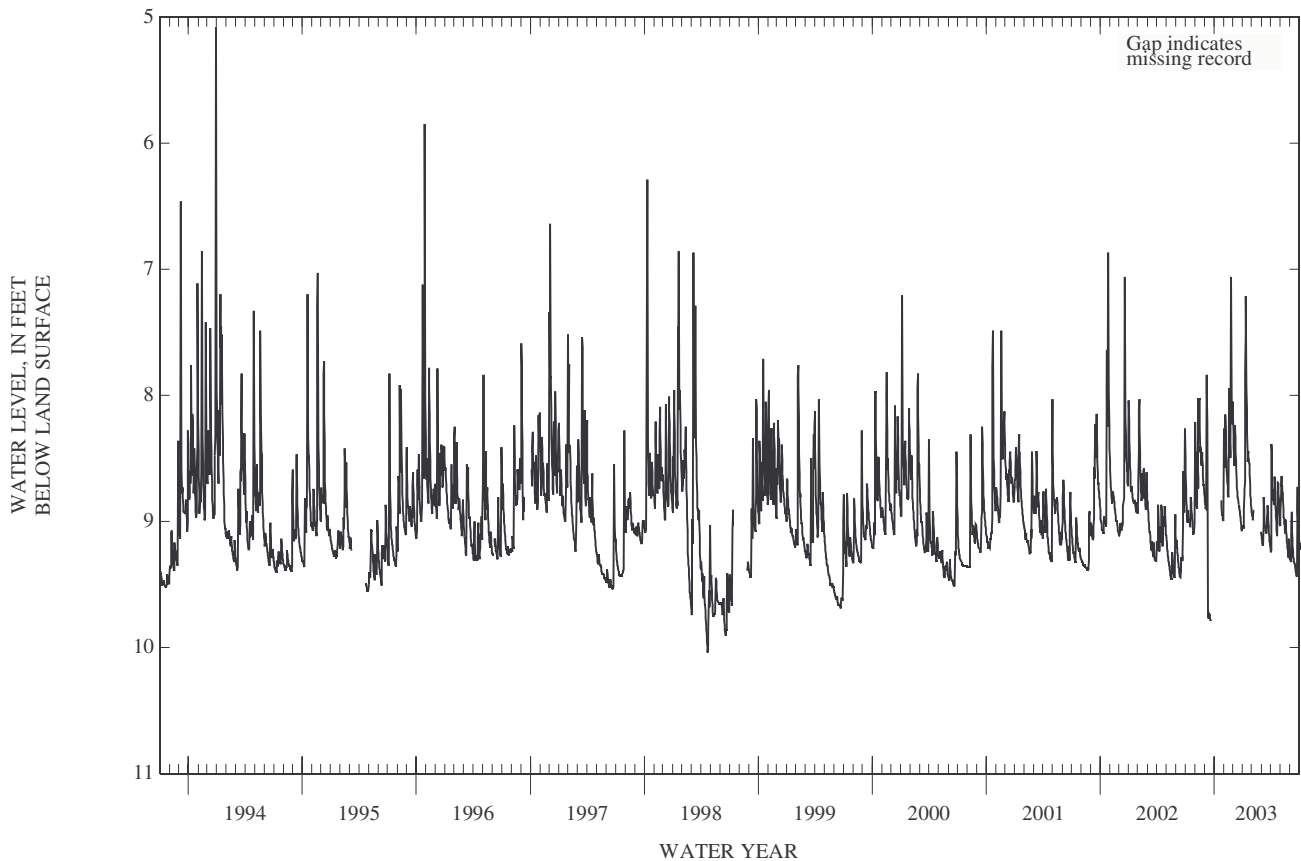
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.48 ft below land-surface datum, Mar. 27, 1994; lowest, 11.66 ft below land-surface datum, Oct. 18, 19, 20, 1998.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.01	8.92	8.79	---	8.25	8.58	9.06	9.01	9.18	8.82	8.76	8.99
10	9.03	8.75	9.76	---	8.67	8.54	7.72	---	9.02	8.87	8.98	9.29
15	9.05	8.49	9.73	---	8.61	8.82	8.37	---	9.10	8.89	9.11	9.35
20	8.96	8.59	---	---	8.49	8.88	8.54	---	8.90	9.12	9.18	9.43
25	9.10	8.69	---	8.95	8.15	8.98	8.79	---	9.14	8.80	9.29	9.10
EOM	8.44	8.82	---	8.36	8.09	9.04	8.93	9.12	9.25	9.00	9.31	9.25

WTR YR 2003 HIGHEST 6.54 JAN 20, 2003 LOWEST 9.80 DEC 19, 2002

LOWEST MONTHLY WATER LEVEL



SHELBY COUNTY

350857089591401. Local number, Sh:P-99.

LOCATION.--Lat 35°08'57", long 89°59'14", Hydrologic Unit 08010210, access road off North Parkway, 0.2 mi south of North Parkway, in Overton Park.
Owner: USGS and Memphis Park Commission.

AQUIFER.--Fluvial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 59 ft, cased to 53 ft, screened 53 to 59 ft.

INSTRUMENTATION.--Water level recorder -- 60 minute interval.

DATUM.--Elevation of land-surface datum is 271.06 ft above NGVD of 1929. Measuring point: Top of casing, 2.50 ft above land-surface datum.

REMARKS.--Records good. No missing record.

PERIOD OF RECORD.--July 1968 to current year.

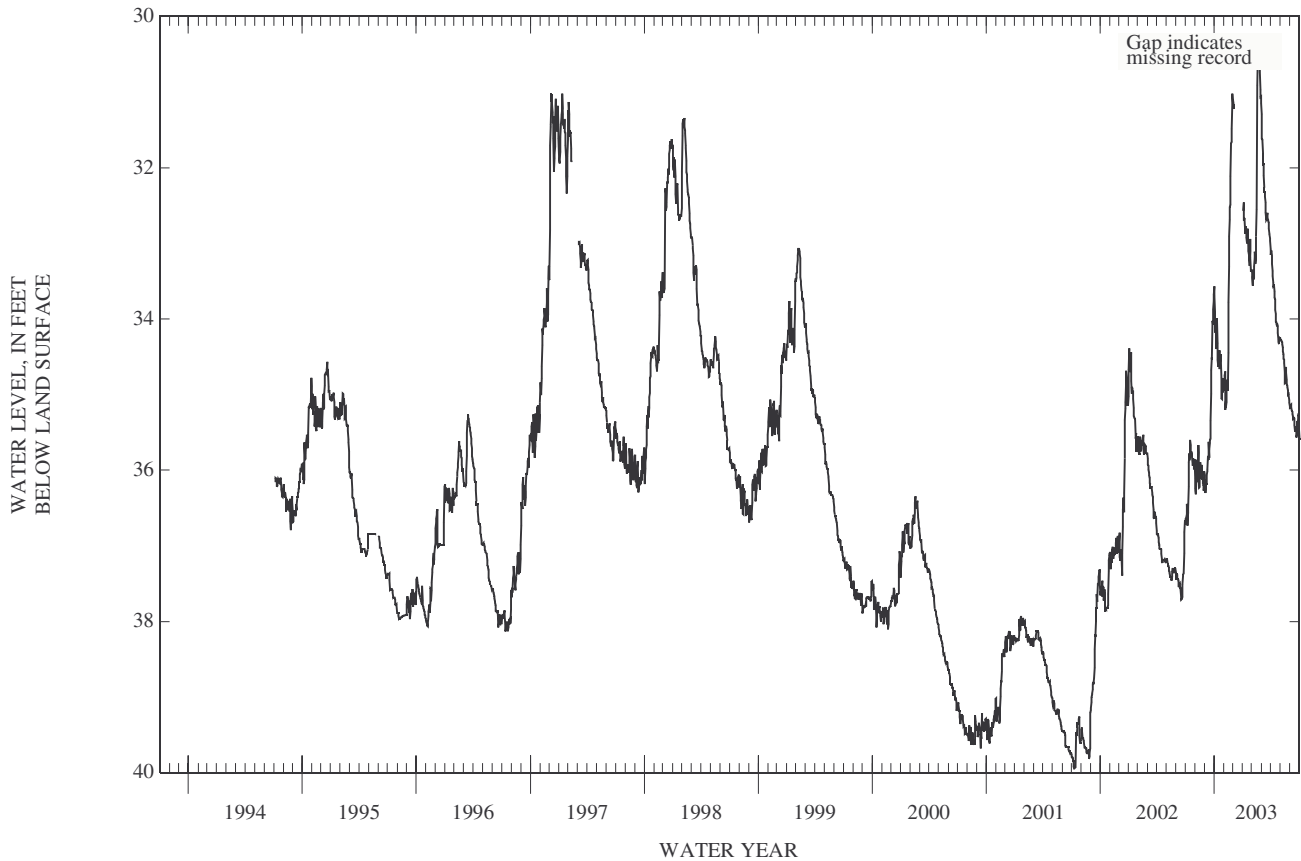
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.27 ft below land-surface datum, April 30, 1991; lowest 42.58 ft below land-surface datum, November 15, 1971.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.79	36.06	36.21	34.18	35.26	---	32.76	33.44	31.99	33.42	34.33	35.22
10	36.49	35.82	35.92	34.43	34.85	---	32.86	33.17	32.33	33.57	34.56	35.35
15	35.62	36.03	35.83	34.66	34.12	---	33.01	32.70	32.70	33.90	34.87	35.52
20	35.82	36.09	35.11	34.52	32.55	---	33.19	30.37	32.69	34.10	34.87	35.58
25	35.89	36.20	34.06	34.98	31.62	---	33.04	30.62	32.90	34.31	35.02	35.36
EOM	36.28	36.26	33.62	34.92	31.18	---	33.39	31.49	33.18	34.28	35.19	35.61

WTR YR 2003 HIGHEST 30.24 MAY 22, 2003 LOWEST 36.79 OCT 5, 2002

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS
SHELBY COUNTY—Continued

351113089583101. Local number, Sh:P-151.

LOCATION.--Lat 35°11'13", long 89°58'31", Hydrologic Unit 08010210, 350 ft southeast of south abutment of Wolf River bridge at Hollywood Street crossing and 150 ft east of Hollywood Street; at north Hollywood Dump site. Owner: City of Memphis and U.S. Geological Survey.

AQUIFER.--Alluvial sand and gravel of Holocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 34.2 ft, cased to 29.2 ft, screened 29.2 to 34.2 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 238.14 ft above NGVD of 1929. Measuring point: Top of inside recorder shelter shelf, 2.00 ft above land-surface datum.

REMARKS.--Missing records, Oct. 14 to Oct. 17 and Nov. 27 to Dec. 16 for the 2003 water year.

PERIOD OF RECORD.--October 1996 to current year.

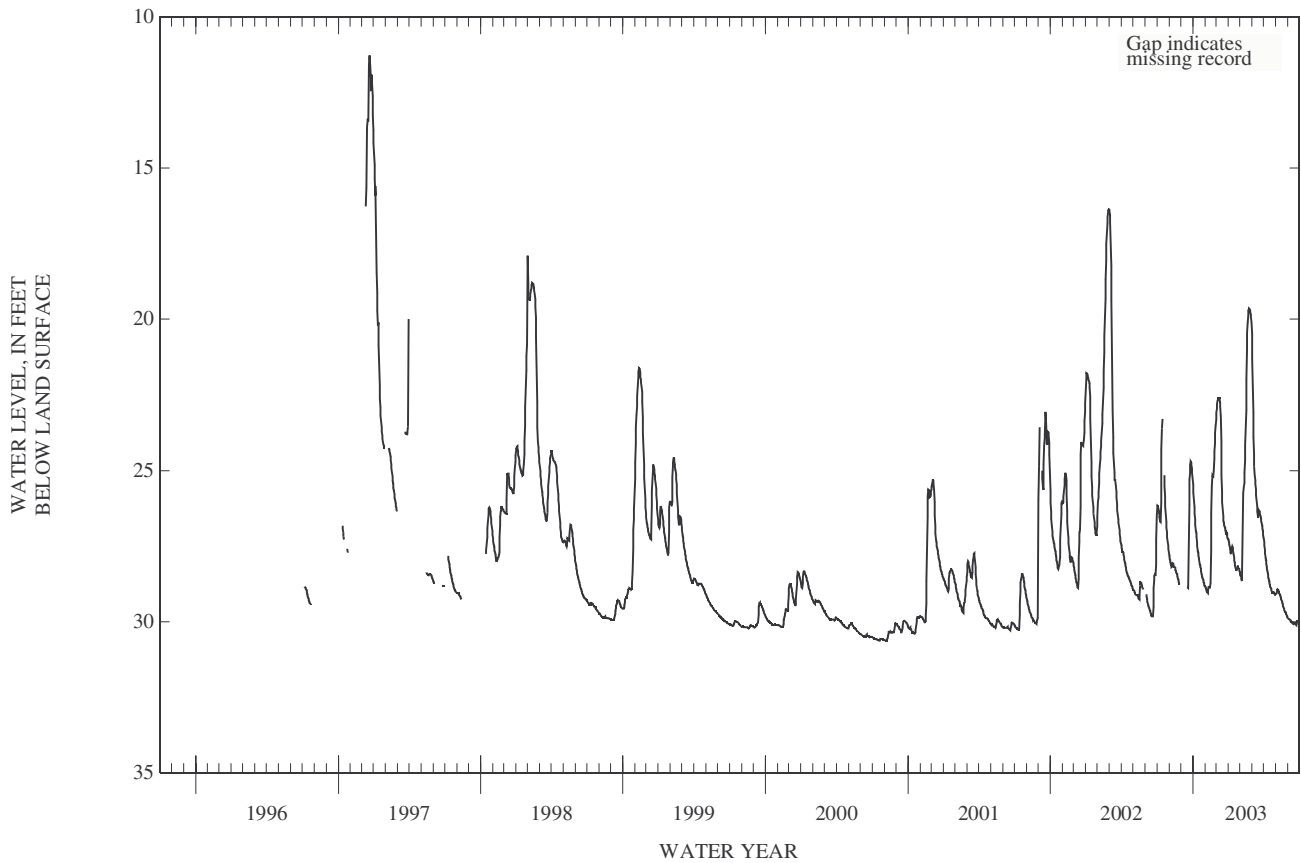
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.20 ft below land-surface datum, Mar. 19, 1997; lowest, 30.64 ft below land-surface datum, Nov. 3-4, 2000.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.47	28.17	---	26.71	29.03	22.63	27.66	28.71	24.68	27.91	28.92	29.92
10	26.71	28.12	---	27.44	28.84	22.80	27.53	25.56	25.71	28.38	29.08	30.02
15	---	28.26	---	27.91	28.37	25.90	27.93	23.90	26.55	28.76	29.30	30.04
20	26.01	28.44	28.04	28.25	25.23	26.76	28.32	20.26	26.39	28.97	29.54	30.09
25	27.13	28.75	24.71	28.58	24.24	27.11	28.17	19.67	26.79	29.01	29.69	30.01
EOM	27.86	---	25.60	28.84	23.41	27.29	28.41	20.87	27.28	29.11	29.87	30.06

WTR YR 2003 HIGHEST 19.63 MAY 23, 24, 25, 2003 LOWEST 30.10 SEP 21, 22, 2003

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS
SHELBY COUNTY—Continued

350900089482300. Local number, Sh:Q-1.

LOCATION.--Lat 35°09'00", long 89°48'23", Hydrologic Unit 08010210, south of Macon Road, 0.6 mi west of Germantown Road, near Memphis. Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 384 ft, cased to 375 ft, screened 375 to 384 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 330.40 ft above NGVD of 1929. Measuring point: Top of casing, 2.40 ft above land-surface datum.

REMARKS.--Records good. No missing record. Water levels affected by pumpage for municipal and industrial water supply in the Memphis area.

PERIOD OF RECORD.--October 1940 to current year.

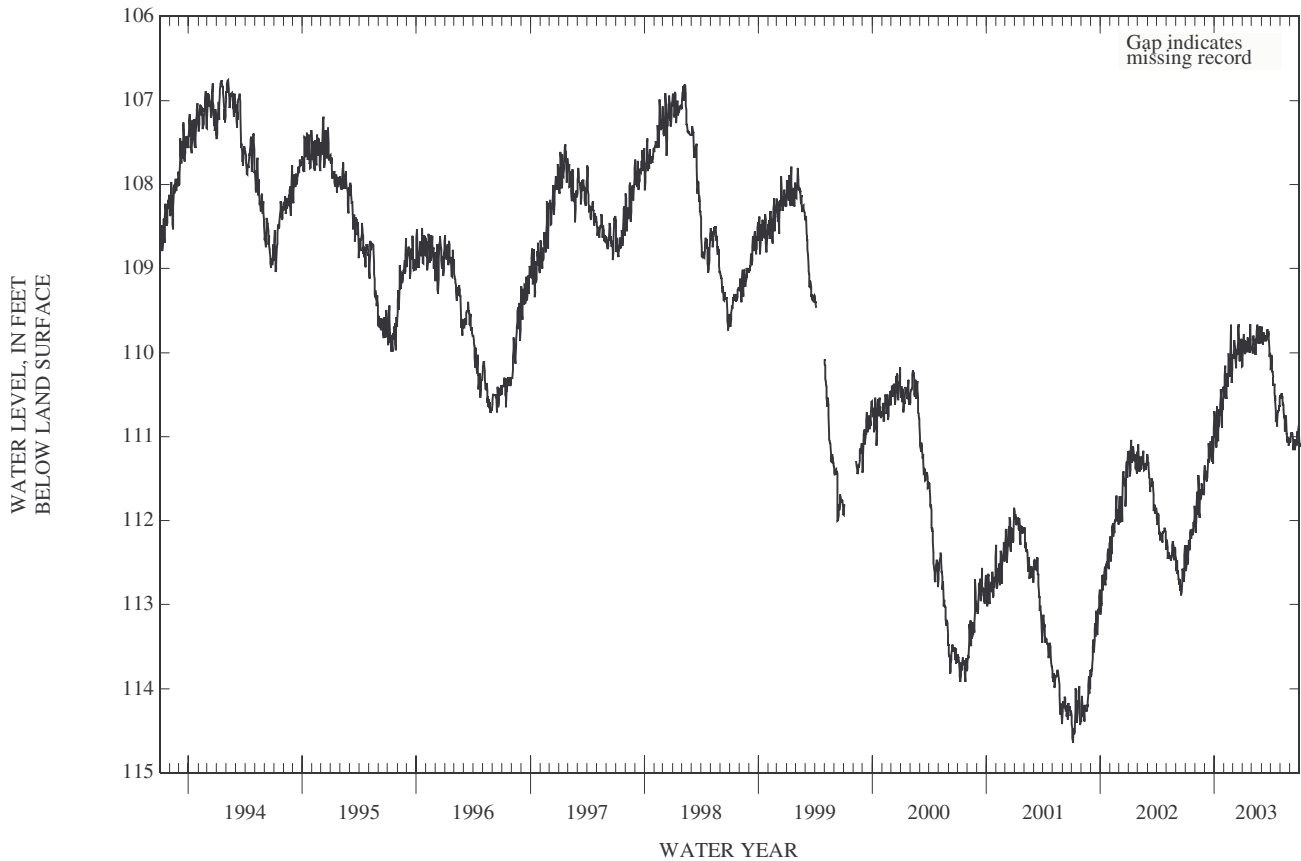
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 74.08 ft below land-surface datum, Dec. 27, 1940; lowest, 114.66 ft below land-surface datum, Oct. 3, 4, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	112.55	111.83	111.50	110.94	110.57	109.86	109.95	109.80	109.93	110.24	110.58	110.98
10	112.36	111.51	111.41	110.90	110.29	110.20	110.00	109.89	109.88	110.41	110.75	111.19
15	112.21	111.71	111.31	110.91	110.05	110.00	110.00	109.80	109.87	110.68	110.96	111.17
20	112.11	111.74	111.23	110.58	110.27	109.80	109.98	109.91	109.79	110.91	111.02	111.13
25	112.09	111.65	111.24	110.81	110.38	110.03	109.73	109.72	110.04	110.73	111.06	111.01
EOM	112.12	111.44	110.84	110.51	110.10	110.19	109.99	109.78	110.24	110.55	111.08	111.14

WTR YR 2003 HIGHEST 109.60 FEB 22, 2003 LOWEST 112.59 OCT 1, 2002

LOWEST MONTHLY WATER LEVEL



352042089523401. Local number, Sh:U-100.

LOCATION.--Lat 35°20'42", long 89°52'34", Hydrologic Unit 08010209, at Millington, 0.3 mi north of intersection of Navy Road and First Street and 300 ft west-southwest of intersection of Darkar Street and First Street, on former Naval Support Activity Mid-South Northside. Owner: Naval Support Activity Mid-South.

AQUIFER.--Loess silt and clay of Pleistocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 in., depth 18 ft, cased to 8 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 274.97 ft above NGVD of 1929. Measuring point: Top of inside recorder shelter shelf, 2.44 ft above land-surface datum.

REMARKS.--Records good. No missing record.

PERIOD OF RECORD.--May 1995 to current year.

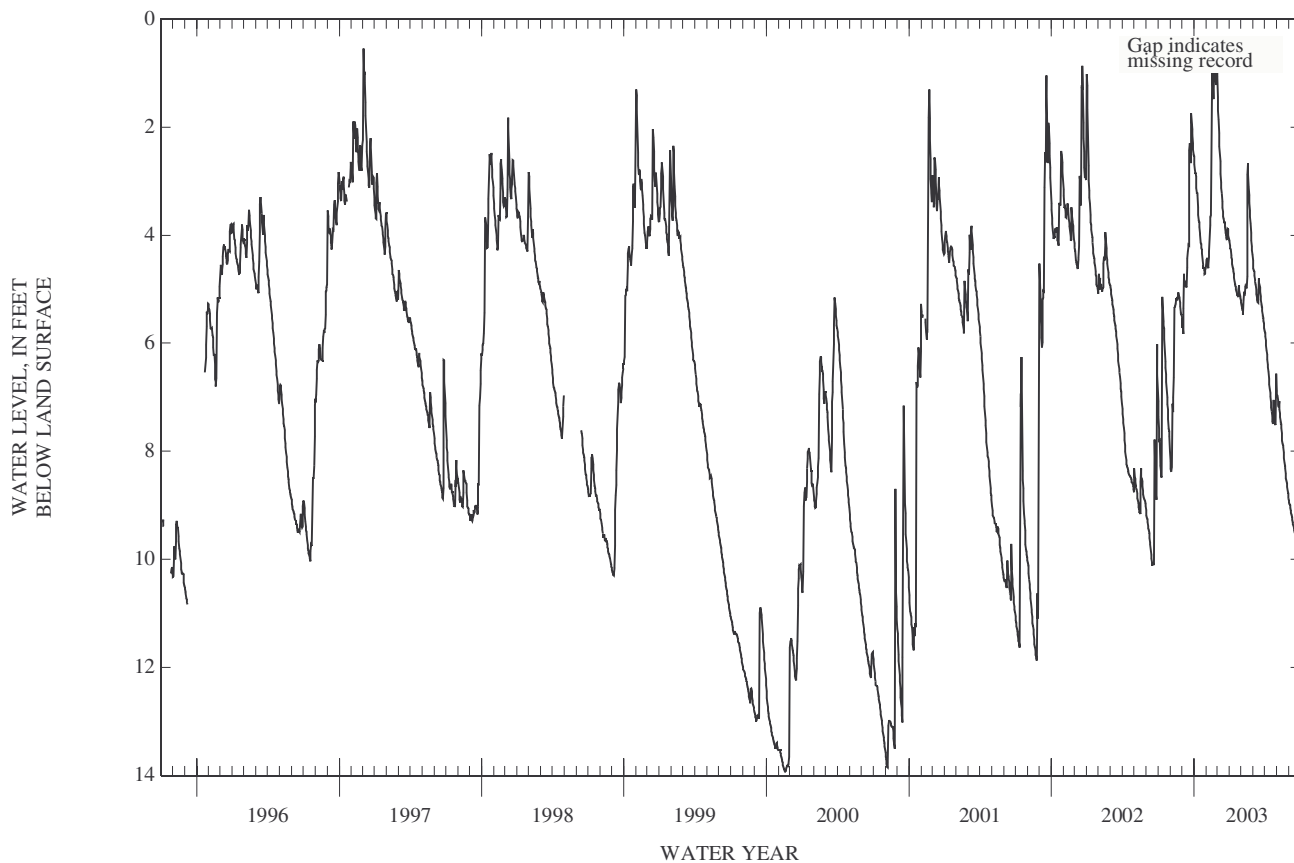
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.26 ft below land-surface datum, Feb. 22, 2003; lowest, 13.94 ft below land-surface datum, Feb. 17, 18, 2000.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.26	8.29	4.77	3.01	4.62	2.25	4.41	5.45	4.83	6.16	7.20	9.11
10	8.50	5.86	4.92	3.56	3.88	3.07	4.64	5.10	5.16	6.59	7.46	9.33
15	5.79	5.24	4.38	3.99	1.88	3.62	4.92	4.97	4.84	7.02	7.88	9.52
20	6.66	5.14	2.40	4.28	1.17	3.79	5.11	3.21	5.17	7.45	8.22	9.71
25	7.31	5.28	1.97	4.61	1.27	4.13	4.96	3.87	5.49	7.40	8.55	9.50
EOM	8.26	5.65	2.60	4.55	0.95	4.11	5.21	4.57	5.79	6.91	8.92	9.80

WTR YR 2003 HIGHEST 0.26 FEB 22, 2003 LOWEST 9.80 SEP 30, 2003

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS
SHELBY COUNTY—Continued

352042089523402. Local number, Sh:U-101.

LOCATION.--Lat 35°20'42", long 89°52'34", Hydrologic Unit 08010209, at Millington, 0.3 mi north of intersection of Navy Road and First Street and 300 ft west-southwest of intersection of Dakar Street and First Street, on former Naval Support Activity Mid-South Northside. Owner: Naval Support Activity Mid-South.

AQUIFER.--Fluvial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 69 ft, cased to 59 ft, screened 59 to 69 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 275.19 ft above NGVD of 1929. Measuring point: Top of inside recorder shelter shelf, 2.62 ft above land-surface datum.

REMARKS.--No missing record.

PERIOD OF RECORD.--May 1995 to current year.

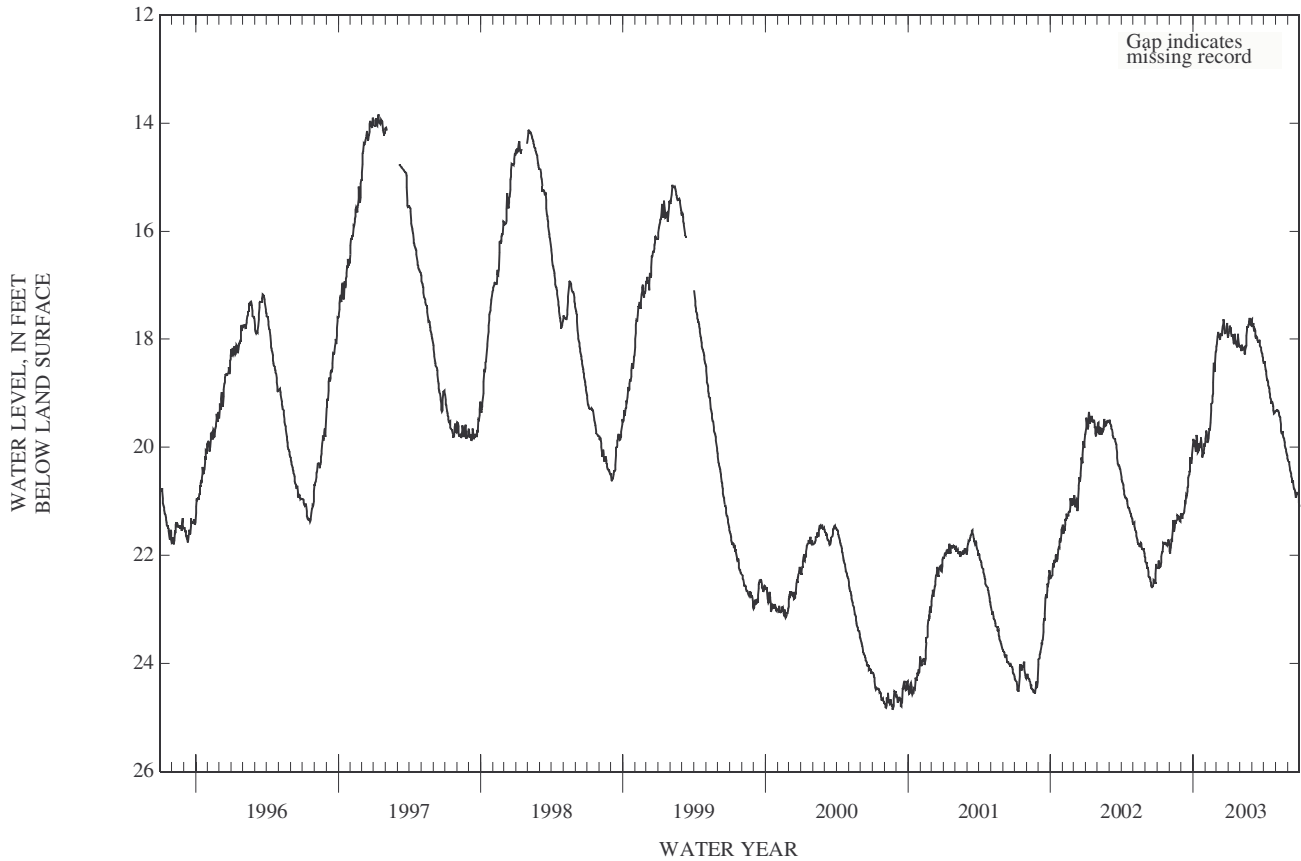
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.02 ft below land-surface datum, May 2-3, 1997; lowest, 24.87 ft below land-surface datum, Nov. 21, 2000.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.22	21.84	21.23	19.88	19.94	17.87	17.85	18.11	17.86	18.57	19.32	20.40
10	22.19	21.41	21.13	19.91	19.74	18.02	17.94	18.18	17.98	18.76	19.43	20.60
15	21.84	21.41	20.92	20.08	19.38	17.93	18.09	18.16	18.04	18.99	19.75	20.77
20	21.77	21.37	20.52	19.89	19.01	17.66	18.09	17.78	18.07	19.18	19.82	20.92
25	21.80	21.32	20.27	20.18	18.61	17.88	17.94	17.65	18.26	19.34	20.02	20.87
EOM	21.86	21.27	19.98	19.96	18.21	17.96	18.13	17.70	18.44	19.33	20.24	21.12

WTR YR 2003 HIGHEST 17.59 MAY 31, 2003 LOWEST 22.23 OCT 1, 2002

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS
SHELBY COUNTY—Continued

352042089523403. Local number, Sh:U-102.

LOCATION.--Lat 35°20'42", long 89°52'34", Hydrologic Unit 08010209, at Millington, 0.3 mi north of intersection of Navy Road and First Street and 300 ft west-southwest of intersection of Dakar Street and First Street, on former Naval Support Activity Mid-South Northside. Owner: Naval Support Activity Mid-South.

AQUIFER.--Cockfield Formation of Claiborne Group of Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4 in., depth 115 ft, cased to 105 ft, screened 105 to 115 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 275.05 ft above NGVD of 1929. Measuring point: Top of inside recorder shelter shelf, 2.67 ft above land-surface datum.

REMARKS.--Records good. No missing record.

PERIOD OF RECORD.--May 1995 to current year.

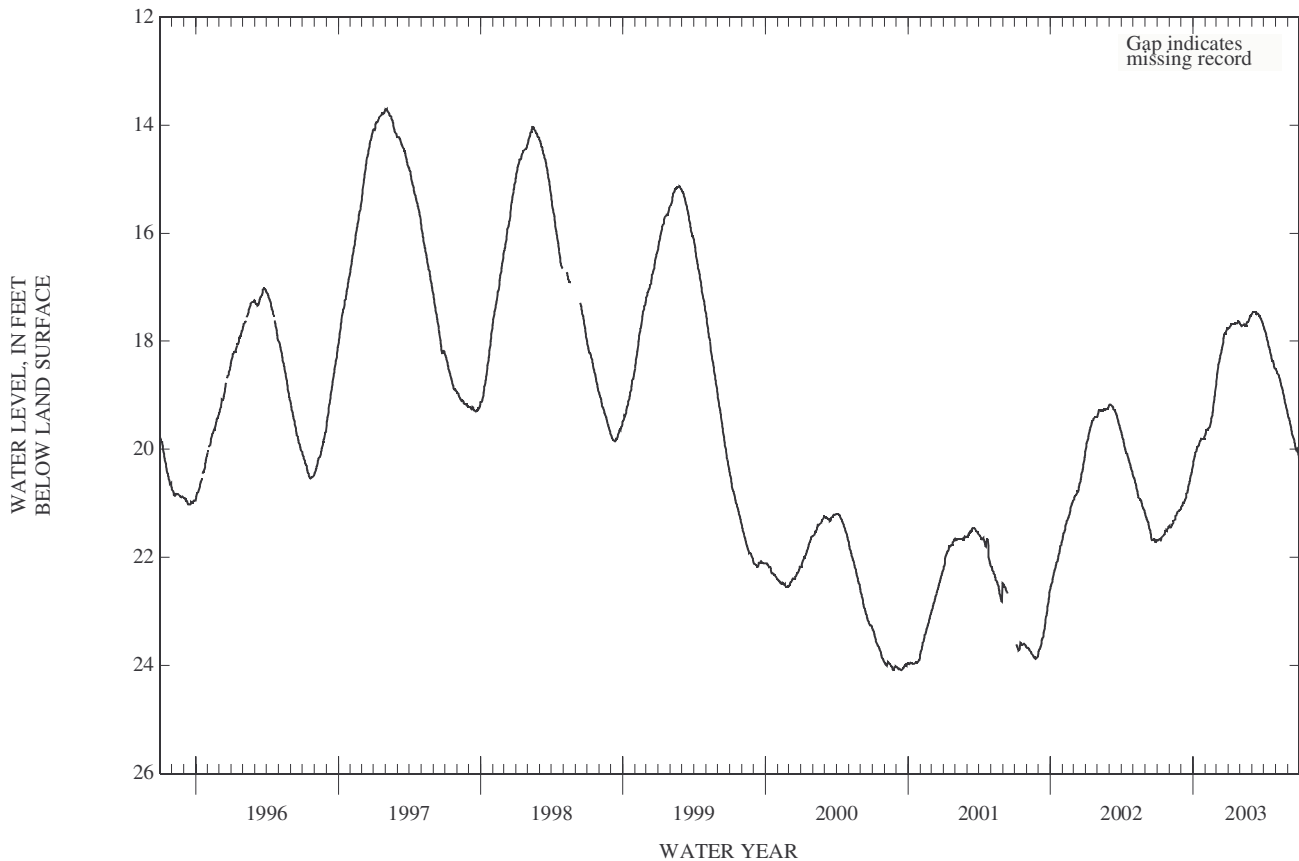
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.71 ft below land-surface datum, Apr. 30 - May 4, 1997; lowest, 24.09 ft below land-surface datum, Dec. 13, 15-16, 2000.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.66	21.43	21.00	20.11	19.64	18.52	17.73	17.72	17.45	17.84	18.60	19.50
10	21.68	21.37	20.96	19.98	19.61	18.31	17.69	17.70	17.47	18.00	18.70	19.69
15	21.62	21.31	20.82	19.93	19.50	18.15	17.68	17.72	17.49	18.15	18.85	19.81
20	21.55	21.20	20.66	19.84	19.30	17.92	17.67	17.64	17.53	18.32	18.99	19.99
25	21.50	21.14	20.50	19.81	19.02	17.85	17.65	17.59	17.62	18.40	19.17	20.05
EOM	21.42	21.09	20.31	19.73	18.84	17.77	17.67	17.50	17.74	18.51	19.37	20.22

WTR YR 2003 HIGHEST 17.45 JUN 3-9, 2003 LOWEST 21.69 OCT 1-4, 2002

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS
 SHELBY COUNTY—Continued

351917089515101. Local number, Sh:V-211.

LOCATION.--Lat 35°19'17", long 89°51'51", Hydrologic Unit 08010209, at Millington, 1,200 ft east of intersection of State Route 385 and Singleton Parkway, and 50 ft south of Big Creek Drainage Canal. Owner: Tennessee Department of Transportation and Naval Support Activity Mid-South.

AQUIFER.--Alluvial sand and gravel of Holocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 50 ft, cased to 40 ft, screened 40 to 50 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 268.27 ft above NGVD of 1929. Measuring point: Top of casing, 2.58 ft above land-surface datum.

REMARKS.--Missing record Aug. 4 to Sept. 30. Water level affected by stage of Big Creek Drainage Canal.

PERIOD OF RECORD.--September 1999 to current year.

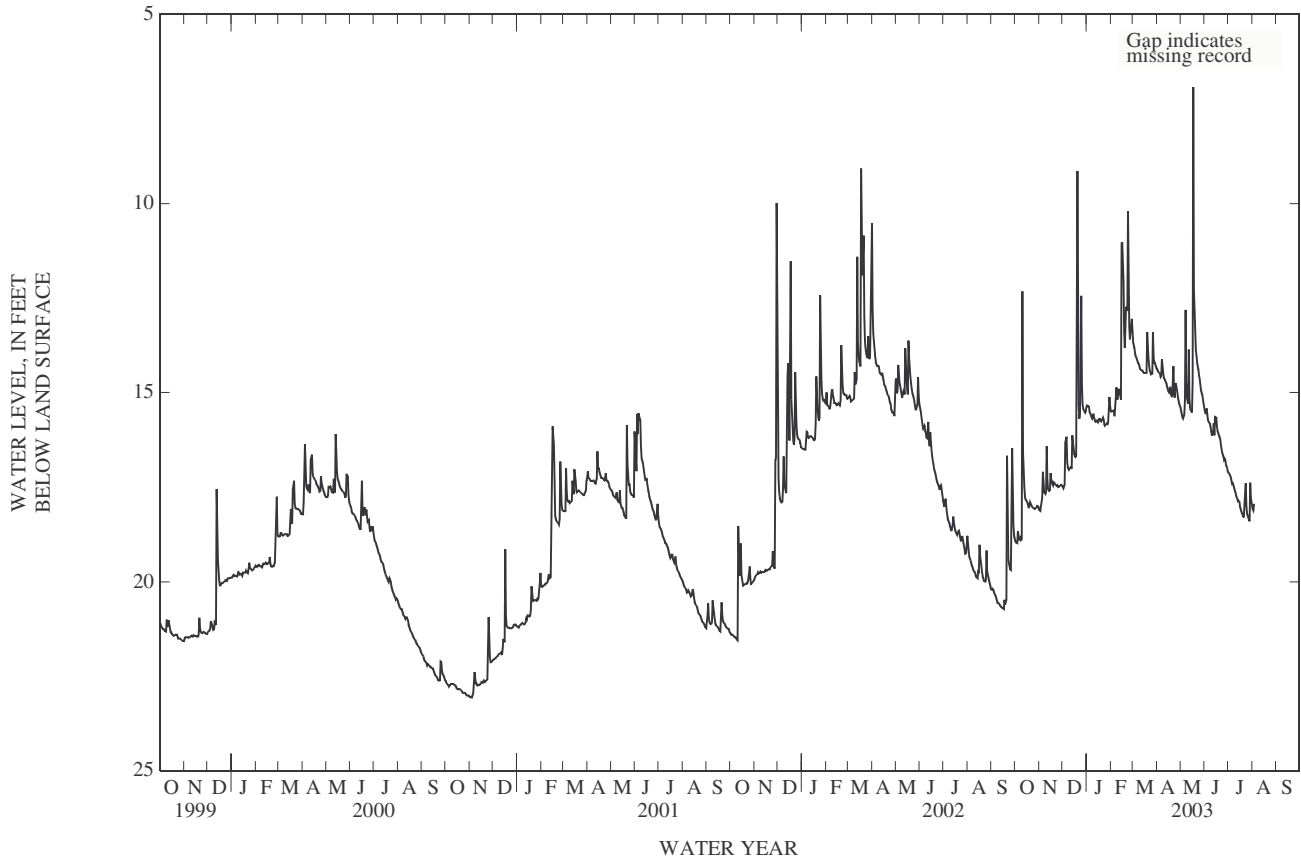
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.10 ft below land-surface datum, May 17, 2003; lowest, 23.07 ft below land-surface datum, Nov. 2, 2000.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.86	17.81	16.67	15.58	15.64	14.09	14.64	15.65	15.79	17.39	---	---
10	18.69	17.16	17.03	15.71	15.05	14.38	14.64	15.35	16.18	17.68	---	---
15	17.87	17.54	16.66	15.78	11.76	14.49	14.97	15.57	15.89	17.95	---	---
20	17.94	17.40	15.05	15.73	13.32	14.20	15.13	13.99	16.30	18.30	---	---
25	18.07	17.49	15.13	15.87	13.65	14.55	14.92	14.70	16.82	18.26	---	---
EOM	18.12	17.50	15.40	15.49	13.55	14.39	15.43	15.48	17.11	18.01	---	---

WTR YR 2003 HIGHEST 4.10 MAY 17, 2003 LOWEST 18.99 OCT 3, 2002

LOWEST MONTHLY WATER LEVEL



GROUND-WATER LEVELS
SHELBY COUNTY—Continued

351917089515102. Local number, Sh:V-222.

LOCATION.--Lat 35°19'17", long 89°51'51", Hydrologic Unit 08010209, at Millington, 1,200 ft east of intersection of State Route 385 and Singleton Parkway, and 40 ft south of Big Creek Drainage Canal. Owner: Tennessee Department of Transportation and Naval Support Activity Mid-South.

AQUIFER.--Alluvial sand, silt and clay of Holocene age.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 30 ft, cased to 20 ft, screened 20 to 30 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute interval.

DATUM.--Elevation of land-surface datum is 268.50 ft above NGVD of 1929. Measuring point: Top of casing, 2.25 ft above land-surface datum.

REMARKS.--No missing records. Water levels affected by stage of Big Creek Drainage Canal.

PERIOD OF RECORD.--September 1999 to current year.

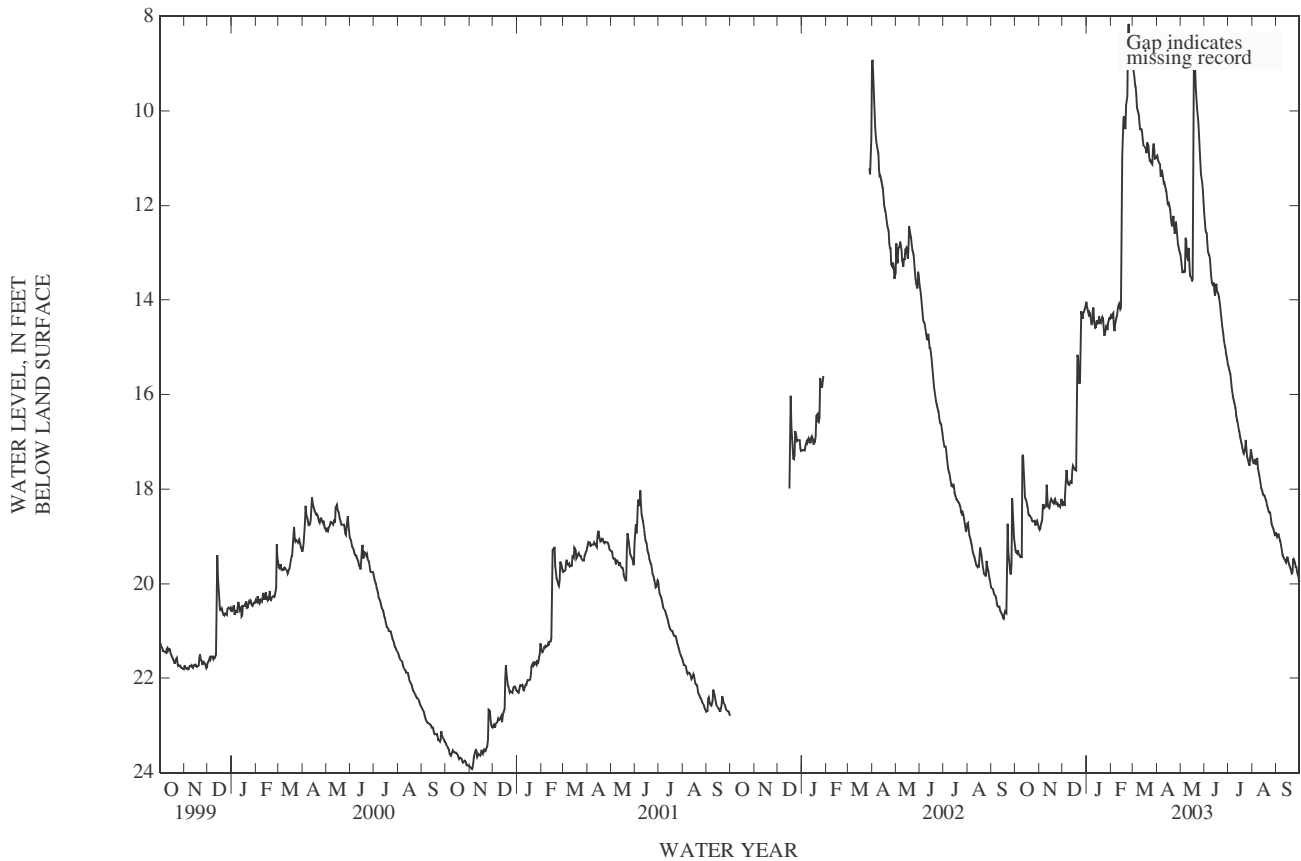
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.05 ft below land-surface datum, Feb. 23, 2003; lowest, 23.94 ft below land-surface datum, Nov. 3, 2000.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.39	18.55	17.72	14.39	14.70	9.77	11.44	13.45	13.03	15.89	17.54	19.14
10	19.42	18.28	17.87	14.53	14.15	10.41	11.54	13.19	13.67	16.35	17.83	19.48
15	18.30	18.29	17.58	14.57	11.39	10.76	12.01	13.66	13.76	16.82	18.14	19.52
20	18.58	18.26	15.57	14.42	10.13	10.85	12.47	9.69	14.20	17.24	18.40	19.80
25	18.70	18.38	14.42	14.61	8.90	11.18	12.51	10.94	14.92	17.35	18.73	19.66
EOM	18.85	18.37	14.08	14.39	9.03	11.01	13.07	12.37	15.39	17.36	18.97	19.98

WTR YR 2003 HIGHEST 8.05 FEB 23, 2003 LOWEST 19.98 SEP 30, 2003

LOWEST MONTHLY WATER LEVEL



FAYETTE COUNTY

352226089330101. Local number, Fa:R-1.

LOCATION.--Lat 35°22'26", long 89°33'01", Hydrologic Unit 08010209, 80 ft south of State Highway 59, 1.2 mi southeast of U.S. Highway 70, near Braden.
Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Fort Pillow Sand of Wilcox Group of early Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 to 4 in., depth 1,022.5 ft, cased to 1,008 ft, screened 1,008 to 1,025 ft.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface is 317.50 ft above NGVD of 1929. Measuring point: Top of casing 3.70 ft above land-surface datum.

PERIOD OF RECORD.--August 1949 to current year. Analog record August 1949 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 64.89 ft below land-surface datum, Aug. 31, 1949; lowest recorded, 76.26 ft below land-surface datum, Dec. 5, 1970; highest water level measured, 73.61 ft below land-surface datum, Apr. 28, 1976; lowest measured, 97.52 ft below land-surface datum, Aug. 1, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	91.58	DEC 16	90.71	FEB 28	90.25	APR 30	89.70	JUN 24	89.44	AUG 29	89.63
NOV 22	91.35	JAN 29	90.64	APR 04	89.85	MAY 27	89.62	JUL 28	89.60		
WATER YEAR 2003	HIGHEST	89.44	JUN 24, 2003	LOWEST	91.58	OCT 31, 2002					

352226089330102. Local number, Fa:R-2.

LOCATION.--Lat 35°22'26", long 89°33'01", Hydrologic Unit 08010209, 80 ft south of State Highway 59, 1.1 mi southeast of U.S. Highway 70, near Braden.
Owner: Tennessee Division of Geology and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 to 4 in., depth 365 ft, cased to 345 ft, screened 345 to 365 ft.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface is 317.20 ft above NGVD of 1929. Measuring point: Top of casing 4.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1949 to current year. Analog record October 1949 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 37.25 ft below land-surface datum, Mar. 10, 1952; lowest recorded, 42.12 ft below land-surface datum, Nov. 30, 1967; highest water level measured, 39.00 ft below land-surface datum, Mar. 3, 1998; lowest measured, 42.57 ft below land-surface datum, Oct. 1, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	41.80	DEC 16	41.48	FEB 28	40.74	APR 30	40.66	JUN 24	40.52	AUG 29	40.82
NOV 22	41.65	JAN 29	41.22	APR 04	40.60	MAY 27	40.50	JUL 28	40.77		
WATER YEAR 2003	HIGHEST	40.50	MAY 27, 2003	LOWEST	41.80	OCT 31, 2002					

SHELBY COUNTY

350514089553700. Local number, Sh:K-75.

LOCATION.--Lat 35°05'14", long 89°55'37", Hydrologic Unit 08010211, at Willowview Avenue and Getwell Road, at Memphis. Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Fluvial sand and gravel of Pleistocene age and possibly sand of Eocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 91 ft cased to 81 ft, screened 81 to 91 ft.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface is 260 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing 1.20 ft above land-surface datum.

REMARKS.--Water level affected by pumpage for Memphis municipal water supply.

PERIOD OF RECORD.--August 1948 to September 1994, water-level recorder, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 21.28 ft below land-surface datum, Apr. 2, 1950; lowest recorded, 52.03 ft below land-surface datum, Jan. 13, 1988; highest water level measured, 45.73 ft below land-surface datum, July 6, 1998; lowest measured, 50.91 ft below land-surface datum, Jan. 4, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	49.89	NOV 26	49.68	FEB 03	49.17	APR 03	48.80	MAY 21	48.26	JUL 30	47.61
30	49.82	DEC 23	49.48	MAR 05	49.10	MAY 05	48.47	JUN 25	47.94	SEP 04	47.28
WATER YEAR 2003		HIGHEST	47.28	SEP 04, 2003	LOWEST	49.89	OCT 02, 2002				

3501435090005200. Local number, Sh:O-1.

LOCATION.--Lat 35°14'35", long 90°00'52", Hydrologic Unit 08010209, west side of O.K. Robertson Road, 0.4 mi north of U.S. Highway at Memphis. Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in., depth 434 ft, cased to 424 ft, screened 424 to 434 ft.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface is 228.70 ft above NGVD of 1929. Measuring point: Top of casing, 4.30 ft above land-surface datum.

REMARKS.--Water level affected by pumpage for municipal and industrial water supply in the Memphis area.

PERIOD OF RECORD.--September 1940 to current year. Analog record September 1940 to January 1992, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 12.65 ft below land-surface datum, Sept. 3, 1940; lowest recorded, 68.82 ft below land-surface datum, Aug. 24, 1988; highest water level measured, 50.16 ft below land-surface datum, Mar. 29, 1994; lowest measured, 65.75 ft below land-surface datum, Sept. 7, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	59.36	DEC 03	57.88	FEB 03	56.24	APR 02	54.11	MAY 21	52.10	AUG 04	56.82
NOV 01	58.08	18	55.48	MAR 04	53.16	MAY 02	54.52	JUN 24	52.89	SEP 02	59.30
WATER YEAR 2003		HIGHEST	52.10	MAY 21, 2003	LOWEST	59.36	OCT 01, 2002				

SHELBY COUNTY—Continued

350735089593300. Local number, Sh:P-76.

LOCATION.--Lat 35°07'35", long 89°59'33", Hydrologic Unit 08010210, at Central Avenue and Tanglewood Street, at Memphis. Owner: Memphis Light, Gas and Water Division, City of Memphis.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface is 286.70 ft above NGVD of 1929. Measuring point: Top of casing 1.30 ft above land-surface datum.

REMARKS.--Water level affected by pumpage for municipal and industrial water supply in the Memphis area.

PERIOD OF RECORD.--October 1928 to current year. Analog record October 1928 to September 1997, periodic tape measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 58.65 ft below land-surface datum, Apr. 3, 1933; lowest, 147.31 ft below land-surface datum, June 30, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	121.40	DEC 18	115.87	APR 03	114.23	JUN 25	118.43	SEP 30	120.28		
30	117.81	JAN 30	116.75	MAY 05	117.80	JUL 30	119.07				
NOV 25	118.38	MAR 04	116.53	27	116.12	SEP 04	121.99				
WATER YEAR 2003		HIGHEST	114.23	APR 03, 2003	LOWEST	121.99	SEP 04, 2003				

352112089571200. Local number, Sh:U-1.

LOCATION.--Lat 35°21'12", long 89°57'12", Hydrologic Unit 08010209, 3 mi west of Millington at Shelby Road and Shake Rag Road, Sloansville, Owner: Mrs. T. S. Welch

AQUIFER.--Fort Pillow Sand of Wilcox Group of early Eocene age

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 to 16 in., depth 1,558 ft, cased to 1,497 ft, screened 1,497 to 1,558 ft.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface datum is 264.20 ft above NGVD of 1929. Measuring point: Top of casing 0.60 ft above land-surface datum.

REMARKS.--Water level affected by pumpage for municipal and industrial water supply at Millington and Memphis.

PERIOD OF RECORD.--August 1946 to current year. Analog record March 1948 to January 1971, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 35.5 ft below land-surface datum, Apr. 11, 1948; lowest recorded, 60.42 ft below land-surface datum, Dec. 20, 1970; highest water level measured, 33.20 ft, Apr. 21, 1947; lowest measured, 90.00 ft below land-surface datum, Aug. 29, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	85.20	DEC 03	84.50	FEB 03	82.40	APR 02	81.51	MAY 28	80.86	AUG 04	82.40
NOV 01	84.71	18	83.34	MAR 04	81.04	MAY 02	81.26	JUN 24	81.89	SEP 02	83.23
WATER YEAR 2003		HIGHEST	80.86	MAY 28, 2003	LOWEST	85.20	OCT 01, 2002				

SHELBY COUNTY—Continued

352112089571300. Local number, Sh:U-2.

LOCATION.--Lat 35°21'12", long 89°57'13", Hydrologic Unit 08010209, 3 mi west of Millington at Shelby Road and Shake Rag Road, Sloanville. Owner: Mrs. F. E Byrd

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 to 12 in., depth 440 ft, cased to 360 ft, screened 360 to 440 ft.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface datum is 268.70 ft above NGVD of 1929. Measuring point: Top of casing 1.60 ft above land-surface datum.

REMARKS.--Water level affected by pumpage for municipal and industrial water supply at Millington and Memphis.

PERIOD OF RECORD.--June 1953 to current year. Analog record June 1953 to December 1970, periodic tape measurements or monthly maximum-minimum recorder thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 39.59 ft below land-surface datum, June 29, 1953; lowest, 64.88 ft below land-surface datum, Sept. 7, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	61.80	DEC 03	61.21	FEB 03	59.86	APR 02	58.70	MAY 28	57.25	AUG 04	59.03
NOV 01	61.59	18	60.53	MAR 04	58.58	MAY 02	58.59	JUN 24	57.48	SEP 02	60.14
WATER YEAR 2003		HIGHEST	57.25	MAY 28, 2003	LOWEST	61.80	OCT 01, 2002				

CRITTENDEN COUNTY, AR

350344090130000. Local number, Ar:H-2.

LOCATION.--Lat 35°03'44", long 90°13'00", Hydrologic Unit 08020203, 0.7 mi east of Millers. Owner: Memphis Light, Gas, and Water Division, City of Memphis, and U.S. Geological Survey.

AQUIFER.--Memphis Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in., depth 502 ft, cased to 482 ft, screened 482 to 502 ft.

INSTRUMENTATION.--Periodic measurements by USGS personnel.

DATUM.--Elevation of land-surface datum is 211 ft above NGVD of 1929, from topographic map. Measuring point: Inside top of shelter base plate, 3.30 ft above land-surface datum.

REMARKS.--Well affected by pumpage in the Memphis, Tennessee area. Records good.

PERIOD OF RECORD.--May 1983 to current year. Analog record from May 1983 to October 1995, periodic measurements thereafter.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.28 ft below land-surface datum, May 30, 31, 1983; lowest, 33.39 ft below land-surface datum, Oct. 31, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	29.95	DEC 20	27.89	APR 03	26.18	JUN 27	24.29	SEP 30	28.64		
31	30.25	JAN 31	28.52	MAY 03	25.70	JUL 31	26.21				
NOV 25	29.29	MAR 06	25.24	21	22.55	SEP 02	28.55				
WATER YEAR 2003		HIGHEST	22.55	MAY 21, 2003	LOWEST	30.25	OCT 31, 2002				

QUALITY OF GROUND WATER

SHELBY COUNTY

350114090071701 - SH:J-146 MLGW-DAVIS

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
AUG 26...	1020	446	759	79	0.2	2	6.3	167	19.0	73	16.2	7.97	1.00

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Aluminum, water, fltrd, ug/L (01106)
AUG 26...	0.4	7.71	18	76	93	3.32	<0.2	14.5	4.5	101	0.14	105	<2

Date	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)
AUG 26...	47.2	<3	312	<3	4.9	<4	<2.0	<3	<0.3	43.8	<6

350446090013500 - SH:J-154 MLGW - ALLEN

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
AUG 26...	1130	370	759	81	0.5	6	6.2	138	18.5	54	12.5	5.55	1.09

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Aluminum, water, fltrd, ug/L (01106)	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)
AUG 26...	0.5	8.41	25	64	78	3.56	<0.2	13.9	2.1	87	<2	66.6	<3

Date	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)
AUG 26...	1,130	<3	15.0	<4	<2.0	<3	<0.3	57.1	<6

QUALITY OF GROUND WATER

SHELBY COUNTY—Continued

350642089555000 - SH:K-142 MLGW 99 SHEAHAN WELL FIELD

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, ftrd, mg/L (00915)	Magnesium, water, ftrd, mg/L (00925)	Potassium, water, ftrd, mg/L (00935)	Sodium adsorption ratio (00931)
AUG 27...	1300	759	89	0.8	8	6.0	122	18.0	42	9.40	4.38	0.76	0.7

Date	Sodium, water, ftrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat ftrd inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat ftrd incm. titr., field, mg/L (00453)	Chloride, water, ftrd, mg/L (00940)	Fluoride, water, ftrd, mg/L (00950)	Silica, water, ftrd, mg/L (00955)	Sulfate water, ftrd, mg/L (00945)	Residue water, ftrd, sum of constituents mg/L (70301)	Residue water, ftrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat ftrd mg/L (70300)	Aluminum, water, ftrd, ug/L (01106)	Barium, water, ftrd, ug/L (01005)
AUG 27...	10.2	34	43	53	5.87	<0.2	15.7	8.0	81	0.11	78	<2	26.1

Date	Cobalt water, ftrd, ug/L (01035)	Iron, water, ftrd, ug/L (01046)	Lithium, water, ftrd, ug/L (01130)	Manganese, water, ftrd, ug/L (01056)	Molybdenum, water, ftrd, ug/L (01060)	Nickel, water, ftrd, ug/L (01065)	Selenium, water, ftrd, ug/L (01145)	Silver, water, ftrd, ug/L (01075)	Strontium, water, ftrd, ug/L (01080)	Vanadium, water, ftrd, ug/L (01085)
AUG 27...	<3	156	<3	19.7	<4	<2.0	<3	<0.3	25.5	<6

350218089511701 - SH:L-036 MLGW

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Noncarb hardness, wat ftrd field, mg/L as CaCO3 (00904)	Calcium water, ftrd, mg/L (00915)	Magnesium, water, ftrd, mg/L (00925)	Potassium, water, ftrd, mg/L (00935)
AUG 26...	1310	755	49	1.4	16	6.2	87	21.0	38	1	9.51	3.46	0.50

Date	Sodium adsorption ratio (00931)	Sodium, water, ftrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat ftrd inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat ftrd incm. titr., field, mg/L (00453)	Chloride, water, ftrd, mg/L (00940)	Fluoride, water, ftrd, mg/L (00950)	Silica, water, ftrd, mg/L (00955)	Sulfate water, ftrd, mg/L (00945)	Residue water, ftrd, sum of constituents mg/L (70301)	Residue water, ftrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat ftrd mg/L (70300)	Aluminum, water, ftrd, ug/L (01106)
AUG 26...	0.3	3.60	17	37	45	1.78	<0.2	11.0	2.5	44	0.08	55	<2

Date	Barium, water, ftrd, ug/L (01005)	Cobalt water, ftrd, ug/L (01035)	Iron, water, ftrd, ug/L (01046)	Lithium, water, ftrd, ug/L (01130)	Manganese, water, ftrd, ug/L (01056)	Molybdenum, water, ftrd, ug/L (01060)	Nickel, water, ftrd, ug/L (01065)	Selenium, water, ftrd, ug/L (01145)	Silver, water, ftrd, ug/L (01075)	Strontium, water, ftrd, ug/L (01080)	Vanadium, water, ftrd, ug/L (01085)
AUG 26...	12.8	<3	381	<3	6.0	<4	3.0	<3	<0.3	17.0	<6

QUALITY OF GROUND WATER

SHELBY COUNTY—Continued

350507089482401 - SH:L-090 GERMANTOWN 7

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
AUG 25...	1400	304	759	66	4.1	43	6.0	93	17.5	29	6.79	2.80	0.68
Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
AUG 25...	0.7	8.63	39	33	40	6.31	<0.2	13.6	3.4	62	0.08	60	<0.10
Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Aluminum, water, fltrd, ug/L (01106)	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)
AUG 25...	<0.04	<0.60	<0.008	<0.18	<0.004	<2	20.3	<3	E6	<3	<0.4	<4	2.5
Date	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	1,1,1-Tri-chloro-ethane, water, unfltrd ug/L (34506)	1,1,2,2-Tetra-chloro-ethane, water, unfltrd ug/L (34516)	1,1,2-Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1-Di-chloro-ethane, water, unfltrd ug/L (34496)	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,2-Di-chloro-benzene water, unfltrd ug/L (34536)	1,2-Di-chloro-ethane, water, unfltrd ug/L (32103)	1,2-Di-chloro-propane water, unfltrd ug/L (34541)	1,3-Di-chloro-benzene water, unfltrd ug/L (34566)
AUG 25...	<3	<0.3	20.4	<6	<0.03	<0.09	<0.06	<0.04	<0.04	<0.03	<0.1	<0.03	<0.03
Date	1,4-Di-chloro-benzene water unfltrd ug/L (34571)	Benzene water unfltrd ug/L (34030)	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Bromo-methane water unfltrd ug/L (34413)	Chloro-benzene water unfltrd ug/L (34301)	Chloro-ethane, water, unfltrd ug/L (34311)	Chloro-methane water unfltrd ug/L (34418)	cis-1,3-Di-chloro-propene water unfltrd ug/L (34704)	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-chloro-di-fluoro-methane wat unfltrd ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Ethyl-benzene water unfltrd ug/L (34371)	Styrene water unfltrd ug/L (77128)
AUG 25...	<0.05	<0.04	<0.05	<0.3	<0.03	<0.1	<0.2	<0.09	<0.2	<0.18	<0.2	<0.03	<0.04
Date	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chloride, water, unfltrd ug/L (39175)			
AUG 25...	<0.03	<0.06	<0.05	<0.03	<0.09	<0.10	<0.04	<0.09	E.03	<0.1			

QUALITY OF GROUND WATER

SHELBY COUNTY—Continued

350449089480501 - SH:L-092 GERMANTOWN 9

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
AUG 25...	1300	309	759	65	4.8	51	5.9	64	18.0	20	4.69	1.92	0.50
Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
AUG 25...	0.6	6.11	40	25	30	3.43	<0.2	13.5	1.8	47	0.06	45	<0.10
Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Aluminum, water, fltrd, ug/L (01106)	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)
AUG 25...	<0.04	0.11	<0.008	<0.18	<0.004	<2	14.2	<3	<8	<3	<0.4	<4	<2.0
Date	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	1,1,1-Tri-chloro-ethane, water, unfltrd ug/L (34506)	1,1,2,2-Tetra-chloro-ethane, water, unfltrd ug/L (34516)	1,1,2-Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1-Di-chloro-ethane, water, unfltrd ug/L (34496)	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,2-Di-chloro-benzene water, unfltrd ug/L (34536)	1,2-Di-chloro-ethane, water, unfltrd ug/L (32103)	1,2-Di-chloro-propane water, unfltrd ug/L (34541)	1,3-Di-chloro-benzene water, unfltrd ug/L (34566)
AUG 25...	E2	<0.3	14.1	<6	<0.03	<0.09	<0.06	<0.04	<0.04	<0.03	<0.1	<0.03	<0.03
Date	1,4-Di-chloro-benzene water unfltrd ug/L (34571)	Benzene water unfltrd ug/L (34030)	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Bromo-methane water unfltrd ug/L (34413)	Chloro-benzene water unfltrd ug/L (34301)	Chloro-ethane, water, unfltrd ug/L (34311)	Chloro-methane water unfltrd ug/L (34418)	cis-1,3-Di-chloro-propene water unfltrd ug/L (34704)	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-chloro-di-fluoro-methane wat unfltrd ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Ethyl-benzene water unfltrd ug/L (34371)	Styrene water unfltrd ug/L (77128)
AUG 25...	<0.05	<0.04	<0.05	<0.3	<0.03	<0.1	<0.2	<0.09	<0.2	<0.18	<0.2	<0.03	<0.04
Date	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chloride, water, unfltrd ug/L (39175)			
AUG 25...	<0.03	<0.06	<0.05	<0.03	<0.09	<0.10	<0.04	<0.09	E.05	<0.1			

SHELBY COUNTY—Continued

350913090100801 - SH:O-207 MLGW #12C

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-ium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
AUG 27...	1150	758	759	81	6.2	132	18.5	60	14.1	5.95	0.74	0.5	8.46

Date	Sodium, percent (00932)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Alum-inum, water, fltrd, ug/L (01106)	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)
AUG 27...	23	62	76	2.71	<0.2	14.0	2.5	86	0.11	81	<2	49.8	<3

Date	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Vanad-ium, water, fltrd, ug/L (01085)
AUG 27...	376	<3	7.5	<4	<2.0	<3	<0.3	48.4	<6

351440089572301 - SH:P-134 MORTONWELL FIELD

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Baro-metric pres-sure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, percent of sat-uration mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, unfltrd mg/L as CaCO3 (00900)	Noncarb hard-ness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)
AUG 27...	1015	460.	759	44	1.5	16	6.4	123	18.5	56	0.0	13.3	5.52

Date	Potas-ium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)
AUG 27...	1.31	0.3	5.03	16	56	68	2.06	<0.2	11.9	3.1	77	0.10	71

Date	Alum-inum, water, fltrd, ug/L (01106)	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Vanad-ium, water, fltrd, ug/L (01085)
AUG 27...	3	74.5	<3	1,520	<3	26.3	<4	E1.5	<3	<0.3	82.5	<6

QUALITY OF GROUND WATER

SHELBY COUNTY—Continued

351054089515301 - SH:Q-33

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
AUG 27...	0900	275.	759	78	0.8	8	6.0	104	17.5	34	7.81	3.40	0.93

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Aluminum, water, fltrd, ug/L (01106)
AUG 27...	0.7	8.94	36	37	45	5.03	<0.2	12.1	6.4	67	0.08	59	<2

Date	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)
AUG 27...	33.3	<3	697	<3	10.6	<4	<2.0	<3	<0.3	31.8	<6

350835089434100 - SH:R-29 MLGW #710

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Depth of well, feet below LSD (72008)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
AUG 25...	1045	589	759	66	2.1	22	5.8	50	18.5	17	4.30	1.57	0.57

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Aluminum, water, fltrd, ug/L (01106)
AUG 25...	0.4	4.19	34	20	25	1.94	<0.2	11.2	1.8	38	0.05	35	<2

Date	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)
AUG 25...	7.2	<3	223	<3	6.3	<4	<2.0	<3	<0.3	10.2	<6

CHEMICAL QUALITY OF PRECIPITATION

423

00441400 HATCHIE NATIONAL WILDLIFE REFUGE RAIN GAGE AT HILLVILLE, TN

(NATIONAL TRENDS NETWORK)

LOCATION.--Lat 35o28'08", long 89o10'14", Haywood County, Hydrologic Unit 08010208, 0.9 mi north of Hillville, 12 mi southeast of Brownsville.

PERIOD OF RECORD.--October 1984 to current year.

INSTRUMENTATION.--An automatic wet-dry precipitation collector is used to collect 7-day accumulations. The collector is equipped with a precipitation sensor which activates a motor to operate the sample bucket cover. The sample bucket remains uncovered for the duration of each precipitation event and covered during dry periods. Dryfall samples are not collected. A standard 8.0-inch recording rain gage is used to obtain on-site precipitation records.

REMARKS.--These data are part of the data for this site verified by the National Atmospheric Deposition Program/National Trends Network (NADP/NTN) Coordinator. Additional data are available from the NADP/NTN Coordinator, Natural Resource Ecology Laboratory, Fort Collins, Co. 80523. Finalized, quality assured data from all 200 NADP/NTN sites are available on-line via the internet at <http://btdqs.usgs.gov/acidrain>

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