Water-Data Report 2009

394652075100401 Local number 150741 Mantua Shallow Obs

Northern Atlantic Coastal Plain aquifer system
Magothy-Raritan-Potomac Aquifer System, Upper Aquifer

Gloucester County, NJ

LOCATION.--Lat 39°46′52″, long 75°10′04″ referenced to North American Datum of 1927, Mantua Township, Gloucester County, NJ, Hydrologic Unit 02040202, at the Township of Mantua Road Department, Main Street (County Rt. 553).

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 313 ft. Upper casing diameter 4 in; top of first opening 293 ft, bottom of last opening 313 ft. Drilled artesian well.

DATUM.--Land-surface datum is 82 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelf, 4 ft above land-surface datum, Jul 6, 1987, to present.

PERIOD OF RECORD.--July 1987 to current year.

GAGE.--Submersible logger pressure transducer--60-minute recording interval. Water level recorder, July 1987 to April 2006.

REMARKS.--Water level is affected by nearby pumping.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 105.47 ft below land surface, Apr 3, 2009; lowest, 141.36 ft below land surface, Sep 6-7, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level, 105.47 ft below land surface datum, Apr 3; lowest water level, 121.24 ft below land surface datum, Oct 6, 7.

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	119.55	116.54	110.53	108.15	107.08	107.12	105.87	108.18	109.74	110.97	115.43	113.50
2	119.65	116.57	110.58	107.77	107.08	107.20	105.80	107.92	109.95	110.83	115.32	113.51
3	120.05	116.65	110.52	107.65	107.19	107.40	105.59	107.85	109.44	110.83	114.77	113.62
4	120.16	116.02	110.45	107.74	107.27	107.45	105.59	107.86	108.95	111.37	115.33	113.69
5	120.48	115.25	110.43	107.99	107.45	107.47	105.67	107.79	108.61	111.64	115.43	114.06
6	120.98	114.77	110.32	108.19	107.53	107.49	106.04	107.72	109.02	112.44	115.38	114.36
7	121.07	114.71	110.22	107.99	107.26	107.49	105.82	---	109.54	113.44	115.27	114.53
8	120.78	114.33	110.52	108.02	107.08	107.47	105.90	107.32	110.21	114.59	115.33	114.60
9	120.42	114.11	110.65	108.19	107.11	107.61	105.81	107.36	110.44	115.57	115.09	114.59
10	120.10	114.40	110.70	108.20	106.93	107.52	105.77	107.78	110.53	116.65	114.65	114.63
11	120.03	114.59	110.63	108.15	106.82	107.29	105.74	108.03	110.44	117.31	114.78	113.77
12	120.18	114.44	110.52	108.28	106.68	107.34	105.84	108.18	109.91	116.65	114.78	112.89
13	120.14	114.20	110.81	107.91	106.72	107.39	105.82	108.35	109.67	116.73	114.46	112.70
14	120.14	113.94	110.81	107.71	106.53	107.34	105.81	108.50	109.29	116.94	114.54	112.79
15	120.02	113.59	110.84	107.65	106.54	107.10	105.81	108.41	109.51	117.41	115.06	113.04
16	119.97	113.44	110.69	107.81	106.94	106.97	106.00	108.24	109.46	117.86	115.54	113.05
17	120.04	113.84	110.36	107.59	107.22	107.00	106.19	107.92	109.72	118.09	116.39	112.97
18	119.85	113.77	110.41	107.44	107.35	106.81	106.08	108.21	109.53	118.05	117.39	112.95
19	119.79	113.57	110.19	107.50	107.21	106.67	106.12	108.48	109.39	118.49	117.10	113.10
20	119.68	113.43	110.11	107.56	107.09	106.65	106.41	109.22	109.43	118.70	116.76	113.42
21	119.08	113.38	109.94	107.84	107.15	106.64	106.15	109.89	109.16	118.60	116.81	113.91
22	118.83	113.24	109.95	108.09	107.06	106.50	106.01	110.43	108.78	117.69	115.48	113.69
23	118.69	112.92	109.59	108.04	107.11	106.45	106.08	110.96	108.92	117.42	114.30	113.58
24	118.23	112.56	109.13	108.08	107.19	106.42	106.53	111.61	108.77	117.25	114.16	113.67
25	117.81	111.94	108.96	108.09	107.22	106.35	106.92	111.67	108.83	117.52	114.26	113.52
26	117.29	111.80	108.91	108.06	107.13	106.24	107.38	111.36	109.06	117.23	114.56	113.24
27	116.97	111.51	108.76	107.74	107.09	106.16	108.02	110.25	109.44	117.04	114.71	112.47
28	116.98	111.18	108.52	107.35	107.14	106.01	108.24	109.77	109.39	117.37	114.34	111.98
29	116.85	111.00	108.36	107.27	---	105.78	108.63	109.29	109.59	117.68	113.25	112.08
30	116.98	110.71	108.25	107.26	---	105.81	108.28	109.04	110.47	117.15	112.86	112.20
31	116.86	---	108.18	107.26	---	105.93	---	109.26	---	116.60	113.01	---
Mean	119.28	113.75	109.96	107.82	107.08	106.87	106.33	---	109.51	116.00	115.05	113.40
Max	121.07	116.65	110.84	108.28	107.53	107.61	108.63	---	110.53	118.70	117.39	114.63
Min	116.85	110.71	108.18	107.26	106.53	105.78	105.59	---	108.61	110.83	112.86	111.98

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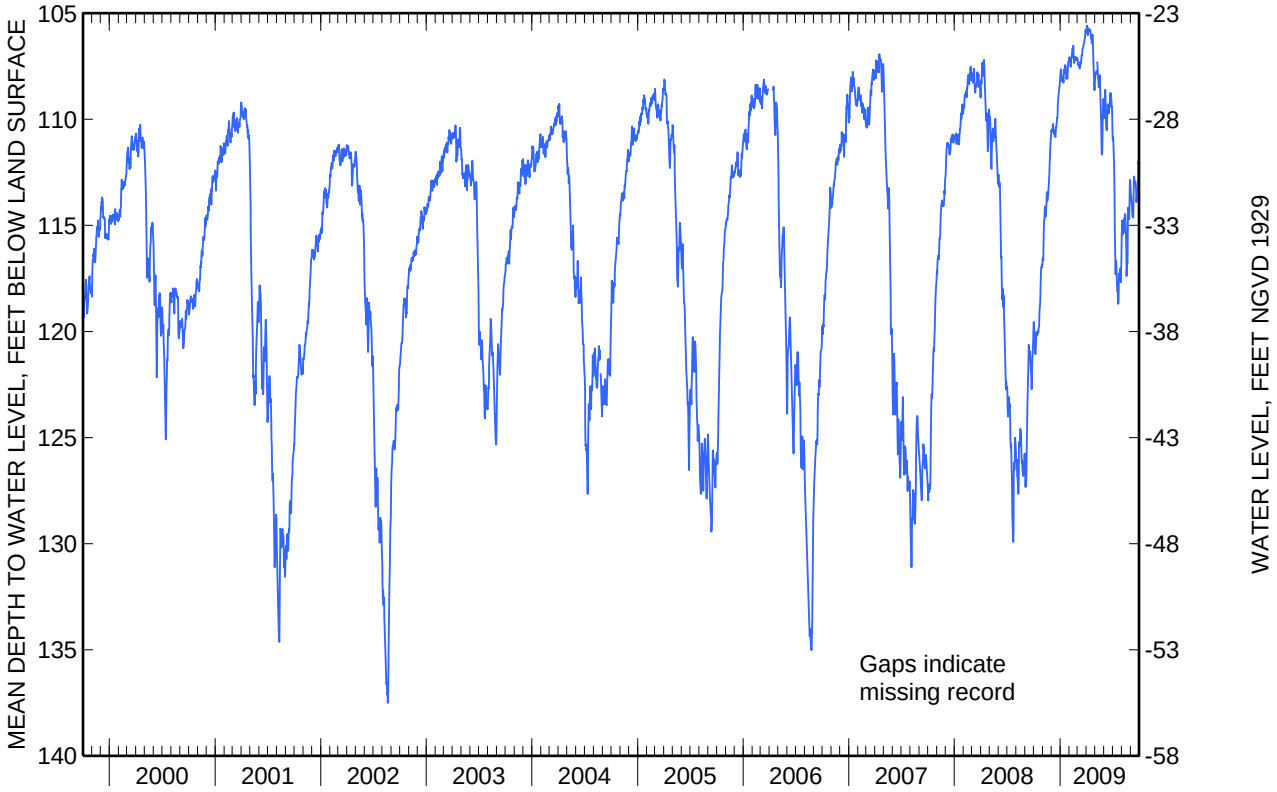

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WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 2

Date	Time	Temperature, air, deg C (00020)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Altitude of land surface feet (72000)	Depth of well, feet below LSD (72008)	Dissolved solids dried @ 180degC wat flt mg/L (70300)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)
May 07...	1245	17.5	8.0	8.2	427	15.7	82.0	313.00	263	7.54	2.34	5.92	83.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 2

Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Iron, water, fltrd, µg/L (01046)	Manganese, water, fltrd, µg/L (01056)	Strontium, water, fltrd, µg/L (01080)	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)
May 07...	179	.11	25.8	8.9	4.04	45	6.9	273	.15	515