Water-Data Report 2010

394904074253601 Local number 051391 Coyle 2 Obs (OW96) NJ Permit Number 32-21805

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

Burlington County, NJ

LOCATION.--Lat 39°49′04″, long 74°25′36″ referenced to North American Datum of 1927, Woodland Township, Burlington County, NJ, Hydrologic Unit 02040301, at the State Forest Fire Service installation, Coyle Field.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 1,441 ft. Upper casing diameter 4 in; top of first opening 1,416 ft, bottom of last opening 1,436 ft. Drilled artesian well.

DATUM.--Land-surface datum is 186.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelf, 4.00 ft above land-surface datum, Jul 17, 1997, to present.

PERIOD OF RECORD.--July 1997 to current year.

GAGE.--Water-level recorder--60 minute-recording interval.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 207.75 ft below land surface, May 25, 2000; lowest, 223.77 ft below land surface, Sep 27, 29, 30, 2010.

EXTREMES FOR CURRENT YEAR.--Highest water level, 220.65 ft below land surface datum, Apr 26, 27; lowest water level, 223.77 ft below land surface datum, Sep 27, 29, 30.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	222.42	222.63	222.73	222.19	222.15	221.48	221.07	220.90	220.84	221.21	221.95	222.91
2	222.42	222.68	222.77	222.10	222.13	221.53	221.11	220.91	220.82	221.27	222.04	222.95
3	222.37	222.66	222.49	222.06	222.06	221.39	221.12	220.87	220.78	221.27	222.08	222.87
4	222.39	222.75	222.72	222.11	222.15	221.43	221.10	220.88	220.82	221.22	222.04	222.90
5	222.44	222.70	222.64	222.13	222.11	221.54	221.10	220.94	220.79	221.22	221.99	223.07
6	222.46	222.74	222.72	222.13	221.80	221.61	221.00	220.89	220.73	221.26	222.03	223.22
7	222.35	222.78	222.75	222.18	221.86	221.58	220.94	220.95	220.85	221.29	222.17	223.25
8	222.54	222.78	222.75	222.15	221.91	221.52	220.92	220.79	220.96	221.32	222.26	223.16
9	222.48	222.85	222.33	222.26	221.92	221.53	220.93	220.96	220.96	221.31	222.30	223.18
10	222.49	222.81	222.38	222.35	221.52	221.54	221.12	221.09	220.86	221.28	222.30	223.23
11	222.67	222.82	222.63	222.32	221.63	221.54	221.14	221.14	220.98	221.31	222.31	223.29
12	222.74	222.72	222.78	222.27	221.73	221.53	221.18	221.04	220.98	221.35	222.35	223.34
13	222.64	222.62	222.60	222.32	221.65	221.21	221.27	221.09	220.89	221.36	222.46	223.34
14	222.71	222.56	222.53	222.34	221.65	221.06	221.30	221.02	220.88	221.35	222.55	223.34
15	222.59	222.60	222.48	222.31	221.70	221.06	221.18	220.98	220.97	221.39	222.56	223.46
16	222.53	222.68	222.60	222.32	221.56	221.20	221.02	221.01	221.00	221.40	222.56	223.47
17	222.60	222.78	222.64	222.16	221.59	221.27	220.93	221.04	220.92	221.41	222.62	223.39
18	222.59	222.87	222.61	222.03	221.59	221.19	221.00	220.89	221.01	221.42	222.67	223.54
19	222.67	222.81	222.34	222.13	221.66	221.17	221.02	220.79	221.03	221.45	222.64	223.55
20	222.69	222.72	222.29	222.14	221.73	221.25	221.02	220.85	220.97	221.51	222.67	223.54
21	222.71	222.75	222.39	222.24	221.73	221.29	220.98	220.91	221.02	221.54	222.75	223.65
22	222.66	222.82	222.45	222.14	221.71	221.22	220.92	220.96	221.07	221.58	222.74	223.64
23	222.68	222.85	222.50	222.26	221.57	221.01	220.96	220.96	221.04	221.63	222.74	223.69
24	222.57	222.78	222.56	222.20	221.52	221.10	221.06	220.99	221.00	221.63	222.82	223.70
25	222.65	222.73	222.56	221.86	221.38	221.16	220.85	220.97	221.06	221.64	222.83	223.65
26	222.78	222.66	222.33	221.92	221.25	221.09	220.68	220.84	221.06	221.74	222.90	223.71
27	222.69	222.49	222.18	222.11	221.39	221.36	220.69	220.81	221.00	221.78	223.01	223.74
28	222.52	222.60	222.11	222.10	221.43	221.30	220.80	220.86	220.97	221.79	223.09	223.67
29	222.68	222.70	222.27	222.19	---	221.00	220.90	220.86	221.03	221.77	223.13	223.75
30	222.71	222.60	222.44	222.14	---	220.78	220.91	220.84	221.15	221.80	---	223.70
31	222.57	---	222.33	222.08	---	220.89	---	220.87	---	221.87	---	---
Mean	222.58	222.72	222.51	222.17	221.72	221.28	221.01	220.93	220.95	221.46	---	223.40
Max	222.78	222.87	222.78	222.35	222.15	221.61	221.30	221.14	221.15	221.87	---	223.75
Min	222.35	222.49	222.11	221.86	221.25	220.78	220.68	220.79	220.73	221.21	---	222.87

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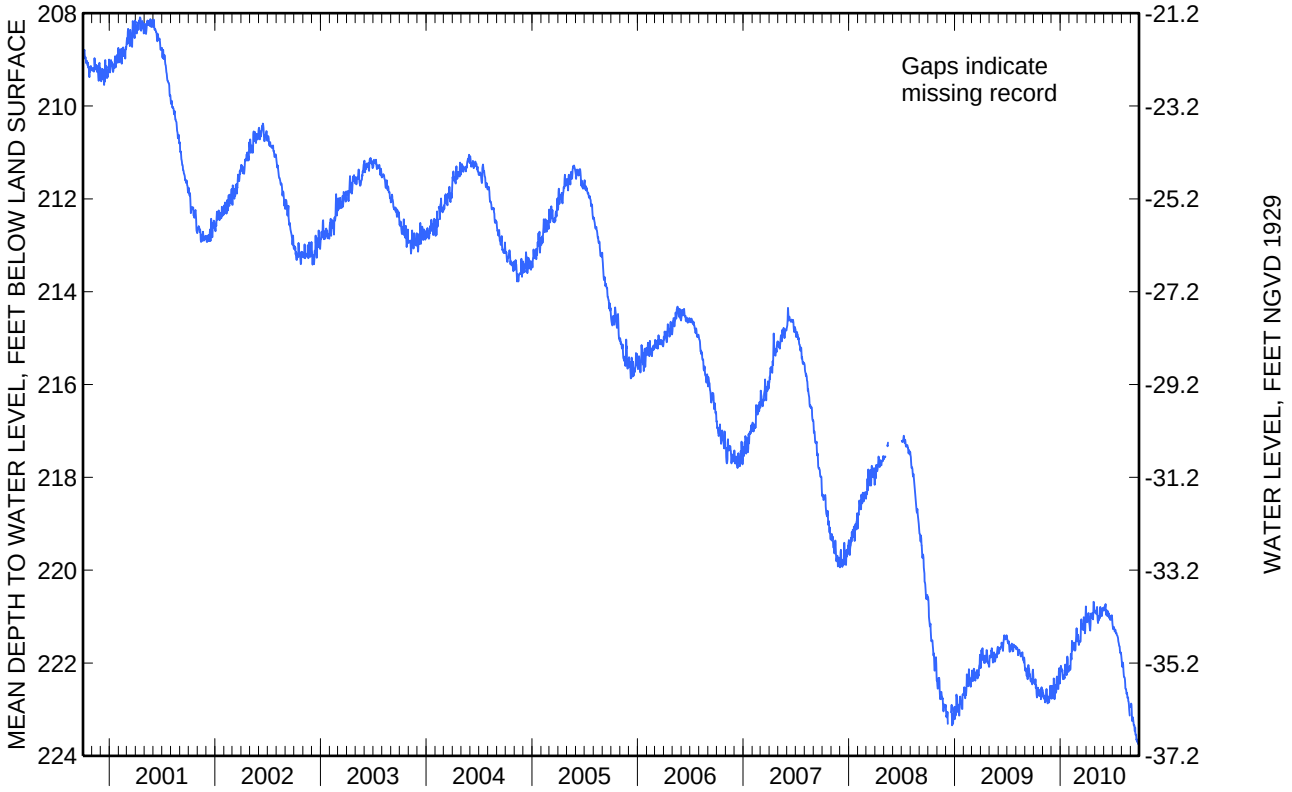

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WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 1 of 3
[CaCO3, calcium carbonate; NTU, nephelometric turbidity unit; SiO2, silicon dioxide; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter]

Date	Sample start time	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detection angle 90 +/- 30 degrees to incident light, NTU (63675)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)
08-31-2010	1420	.8	8.7	252	18.6	36	182	4.22	1.09	5.21

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 2 of 3
[CaCO3, calcium carbonate; NTU, nephelometric turbidity unit; SiO2, silicon dioxide; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter]

Date	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO3 (39086)	Carbon dioxide, water, unfiltered, milligrams per liter (00405)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO2 (00955)	Sulfate, water, filtered, mg/L (00945)	Barium, water, filtered, µg/L (01005)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)
08-31-2010	53.5	112	.4	1.01	.21	10.0	6.30	14	19	3.7

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 3

[CaCO3, calcium carbonate; NTU, nephelometric turbidity unit; SiO2, silicon dioxide; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter]

Date	Strontium, water, filtered, µg/L (01080)	Boron, water, filtered, µg/L (01020)	Methane, water, unfiltered, recoverable, milligrams per liter (85574)
08-31-2010	283	130	.0700