



Water-Data Report 2010

394829074053502 Local number 290018 Island Beach 2 Obs

Northern Atlantic Coastal Plain aquifer system
Piney Point Formation
Ocean County, NJ

LOCATION.--Lat 39°48'29", long 74°05'35" referenced to North American Datum of 1927, Lacey Township, Ocean County, NJ, Hydrologic Unit 02040301, in Island Beach State Park, about 6.6 mi. south of the main entrance.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 474 ft. Upper casing diameter 1.25 in; top of first opening 468 ft, bottom of last opening 474 ft. Drilled artesian well.

DATUM.--Land-surface datum is 8.50 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 0.13 ft above land-surface datum, Oct 23, 1998, to present.

PERIOD OF RECORD.--July 1962 to current year.

GAGE.--None: periodic measurements with chalked steel tape.

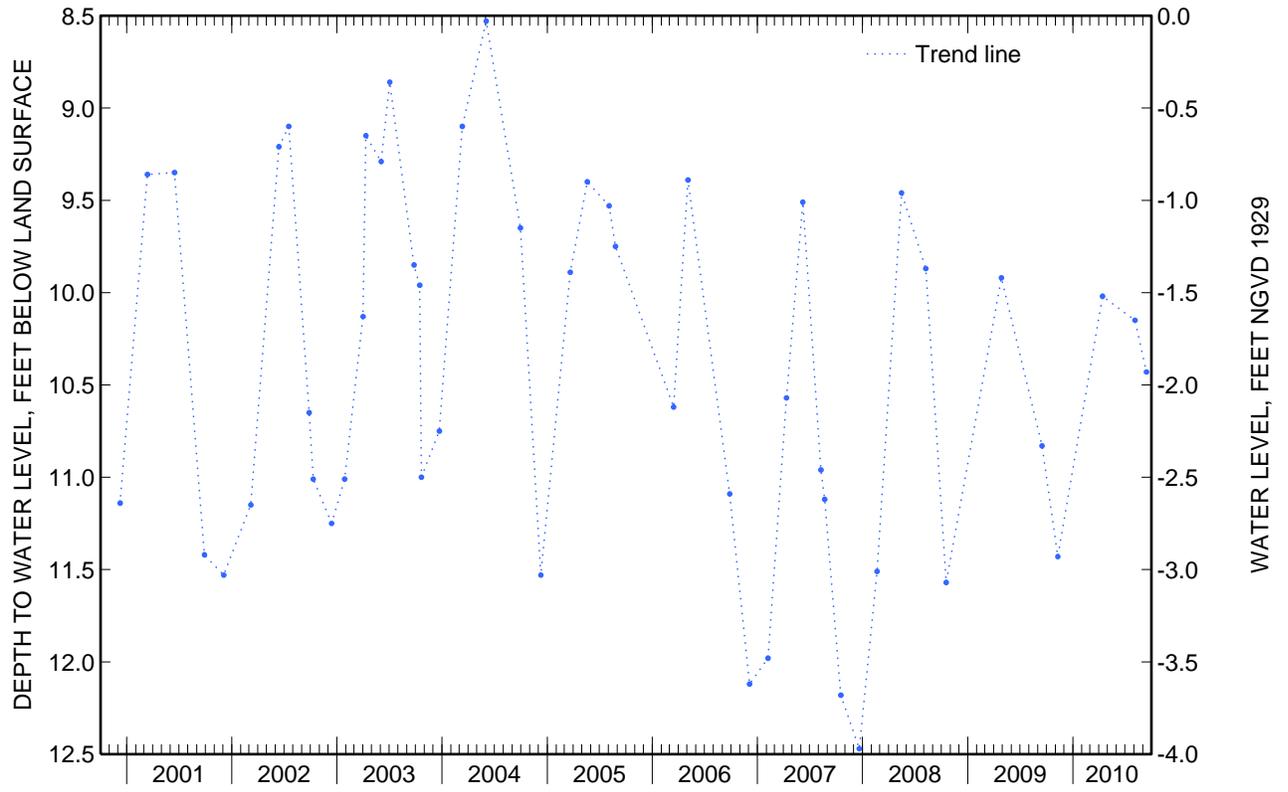
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.93 ft below land surface, Jun 7, 1963; lowest, 12.47 ft below land surface, Dec 20, 2007.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Water level	Date	Water level
Nov 9	11.43	Aug 4	10.15
Apr 13	10.02	Sep 13	10.43

Water year 2010 highest: 10.02, Apr 13, 2010; lowest: 11.43, Nov 9, 2009

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WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; SiO₂, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter]

Date	Sample start time	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	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)	Sodium, water, filtered, mg/L (00930)
08-04-2010	1300	9.9	335	14.4	207	7.38	.057	6.96	59.7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; SiO₂, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter]

Date	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (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)	Strontium, water, filtered, μg/L (01080)
08-04-2010	116	.04	19.6	.23	20.0	16.8	10	18	.6	936

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 3

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; SiO₂, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter]

Date	Arsenic, water, filtered, μg/L (01000)	Boron, water, filtered, μg/L (01020)	Organic carbon, water, unfiltered, mg/L (00680)
08-04-2010	.96	171	1.2