



Water-Data Report 2009

342359077404102 Local number PE-109 TOPSAIL BEACH RESEARCH STATION 2 AT TOPSAIL, NC

Northern Atlantic Coastal Plain aquifer system
Peedee Formation
Pender County, NC

LOCATION.--Lat 34°23'59.9", long 77°40'41.4" referenced to North American Datum of 1983, Pender County, NC, Hydrologic Unit 03030001, .31 mi east of North Carolina Highway 210/U.S. Highway 17 at Topsail.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 493 ft. Upper casing diameter 4.0 in; top of first opening 477 ft, bottom of last opening 487 ft.

DATUM.--Land-surface datum is 60.17 ft above National Geodetic Vertical Datum of 1929. Measuring point: .78 ft above land-surface datum, August 30, 1983, to present.

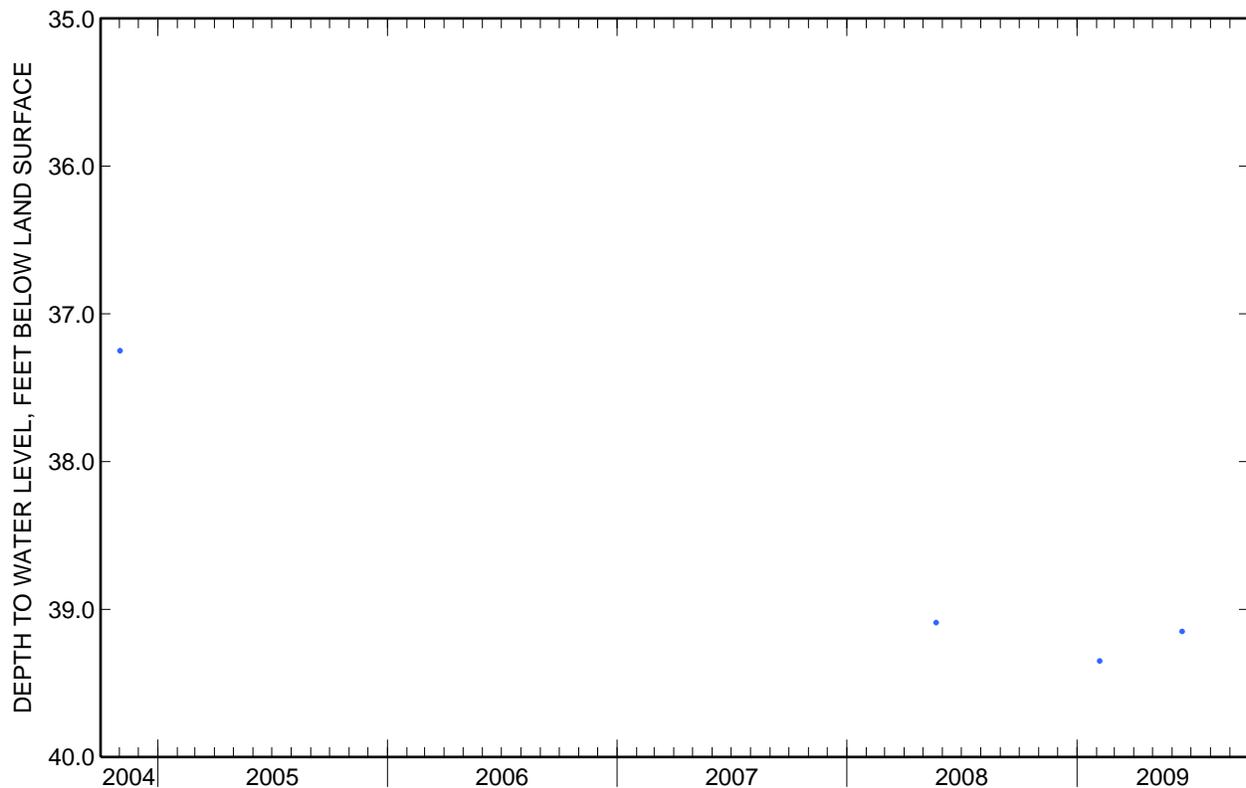
PERIOD OF RECORD.--November 2004, May 2008 to June 2009.

GAGE.--Measured periodically with electric tape.

REMARKS.--Well is measured as part of the Onslow County groundwater study.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

Date	Water level	Date	Water level
Feb 5, 2009	39.35	Jun 16, 2009	39.15



342359077404102 Local number PE-109 TOPSAIL BEACH RESEARCH STATION 2 AT TOPSAIL, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 2009.

REMARKS.--Well sampled as part of the Onslow County groundwater project.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif- ic conduc- tance, wat unfltrd µS/cm @ 25 degC (00095)	Temper- ature, deg C (00010)	Dis- solved solids dried @ 180degC wat fltr mg/L (70300)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)
Jun 16...	1815	756	3.6	39	8.6	2,940	18.9	1,460	17	4.71	1.31	16.2	501

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Alka- linity, wat fltr Gran, field, mg/L as CaCO3 (29802)	Bicar- bonate, wat fltr Gran titr., field, mg/L (63786)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L as P (00665)	Iron, water, fltrd, µg/L (01046)
Jun 16...	447	545	667	.86	E.03	<.90	3.8	2.41	<.016	.005	.023	.089	E8

**WATER-QUALITY
DATA
WATER YEAR
OCTOBER 2008 TO
SEPTEMBER 2009**

Part 3 of 3

[Remark codes:
<, less than;
E, estimated.]

Date	Mangan- ese, water, fltrd, µg/L (01056)
Jun 16...	104