

Water-Data Report 2008

344418077272701 Local number ON-355 (NC-52.3), at Camp Geiger, NC, (Peedee)

Northern Atlantic Coastal Plain aquifer system

Castle Hayne Formation

Onslow County, NC

LOCATION.--Lat 34°44'17.7", long 77°27'27.4" referenced to North American Datum of 1983, Onslow County, NC, Hydrologic Unit 03030001, 0.25 mi east of U.S. Highway 17 and 2 mi south of U.S. Highway 258 at USMC Camp Geiger, southwest of Jacksonville. Owner: U.S. Marine Corps.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 170 ft, diameter 4 in., cased to 145 ft, screened interval from 145 to 165 ft.

DATUM.--Land-surface datum is 19.48 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC well casing, 2.32 ft above land-surface datum, February 1, 2008 to present.

PERIOD OF RECORD.--January 2008 to September 2008.

GAGE.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at site.

REMARKS.--Well is part of U.S. Marine Corps Base, Camp Lejeune, North Carolina, Water Resources Network project.

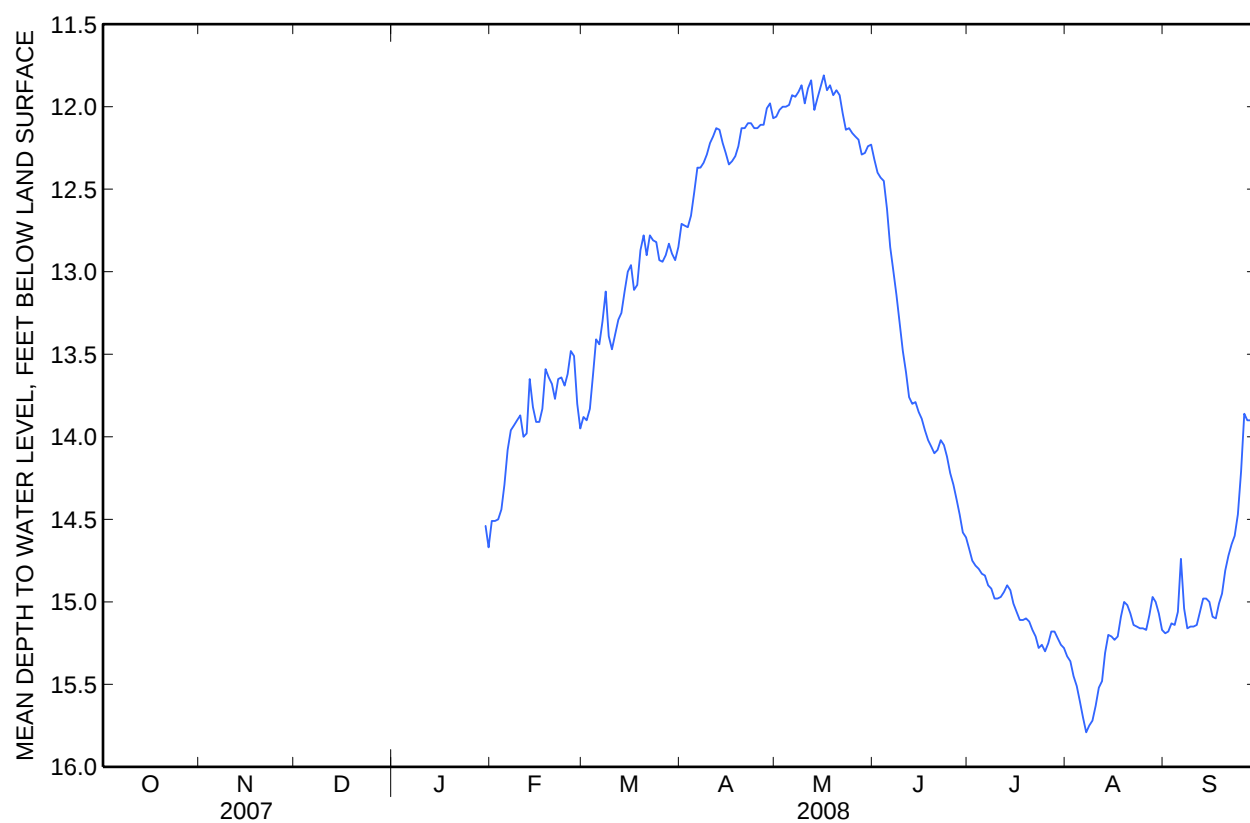
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.73 ft below land-surface datum, May 11, 2008; lowest water level recorded, 15.83 ft below land-surface datum, August 7, 2008.

344418077272701 Local number ON-355 at Camp Geiger, NC, NC-52.3 (Peedee),—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	14.51	13.88	12.71	12.06	12.32	14.68	15.33	15.19
2	---	---	---	---	14.51	13.90	12.72	12.02	12.40	14.75	15.36	15.18
3	---	---	---	---	14.50	13.83	12.73	12.00	12.43	14.78	15.45	15.13
4	---	---	---	---	14.44	13.62	12.66	12.00	12.45	14.80	15.51	15.14
5	---	---	---	---	14.29	13.41	12.52	11.99	12.62	14.83	15.60	15.06
6	---	---	---	---	14.08	13.44	12.37	11.93	12.85	14.84	15.70	14.74
7	---	---	---	---	13.96	13.30	12.37	11.94	12.99	14.90	15.79	15.04
8	---	---	---	---	13.93	13.12	12.34	11.91	13.14	14.92	15.75	15.16
9	---	---	---	---	13.90	13.39	12.29	11.87	13.31	14.98	15.72	15.15
10	---	---	---	---	13.87	13.47	12.22	11.98	13.48	14.98	15.63	15.15
11	---	---	---	---	14.00	13.38	12.18	11.89	13.61	14.97	15.52	15.14
12	---	---	---	---	13.98	13.29	12.13	11.84	13.76	14.94	15.48	15.06
13	---	---	---	---	13.65	13.25	12.14	12.02	13.80	14.90	15.31	14.98
14	---	---	---	---	13.82	13.12	12.22	11.95	13.79	14.93	15.20	14.98
15	---	---	---	---	13.91	13.00	12.28	11.88	13.85	15.01	15.21	15.00
16	---	---	---	---	13.91	12.96	12.35	11.81	13.89	15.06	15.23	15.09
17	---	---	---	---	13.83	13.11	12.33	11.90	13.96	15.11	15.21	15.10
18	---	---	---	---	13.59	13.08	12.30	11.87	14.02	15.11	15.09	15.01
19	---	---	---	---	13.64	12.87	12.24	11.93	14.06	15.10	15.00	14.95
20	---	---	---	---	13.68	12.78	12.13	11.90	14.10	15.12	15.02	14.81
21	---	---	---	---	13.77	12.90	12.13	11.93	14.08	15.17	15.07	14.72
22	---	---	---	---	13.65	12.78	12.10	12.04	14.02	15.21	15.14	14.65
23	---	---	---	---	13.64	12.81	12.10	12.14	14.05	15.28	15.15	14.60
24	---	---	---	---	13.69	12.82	12.13	12.13	14.12	15.26	15.16	14.47
25	---	---	---	---	13.62	12.93	12.13	12.16	14.22	15.30	15.16	14.21
26	---	---	---	---	13.48	12.94	12.11	12.18	14.29	15.25	15.17	13.86
27	---	---	---	---	13.51	12.90	12.11	12.20	14.38	15.18	15.08	13.90
28	---	---	---	---	13.80	12.83	12.01	12.29	14.47	15.18	14.97	13.90
29	---	---	---	---	13.95	12.89	11.98	12.28	14.58	15.22	15.00	13.93
30	---	---	---	14.54	---	12.93	12.07	12.24	14.61	15.26	15.07	13.88
31	---	---	---	14.67	---	12.85	---	12.23	---	15.28	15.17	---
Mean	---	---	---	---	13.90	13.15	12.27	12.02	13.65	15.04	15.30	14.77
Max	---	---	---	---	14.51	13.90	12.73	12.29	14.61	15.30	15.79	15.19
Min	---	---	---	---	13.48	12.78	11.98	11.81	12.32	14.68	14.97	13.86

344418077272701 Local number ON-355 at Camp Geiger, NC, NC-52.3 (Peedee),—Continued



344418077272701 Local number ON-355 at Camp Geiger, NC, NC-52.3 (Peedee),—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--August 2008 to September 2008.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 2008 to September 2008.

WATER TEMPERATURE: August 2008 to September 2008.

INSTRUMENTATION.--Water-quality monitor in operation from January 2008 to September 2008. Missing data from January to August 18, 2008 due to equipment problems.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1470 microsiemens, on many days during the period; minimum recorded, 1450 microsiemens, August 26.

WATER TEMPERATURE: Maximum recorded, 18.4°C, on many days during the period; minimum recorded, 18.4°C, on many days during the period.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
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344418077272701 Local number ON-355 at Camp Geiger, NC, NC-52.3 (Peedee),—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
2	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
3	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
4	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
5	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
6	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
7	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
8	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
9	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
10	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
11	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
12	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
13	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
14	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
15	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
16	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
17	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
18	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4
19	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
20	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
21	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
22	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
23	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
24	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
25	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
26	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
27	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
28	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
29	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
30	---	---	---	---	---	---	18.4	18.4	18.4	18.4	18.4	18.4
31	---	---	---	---	---	---	18.4	18.4	18.4	---	---	---
Month	---	---	---	---	---	---	---	---	---	18.4	18.4	18.4

344418077272701 Local number ON-355 at Camp Geiger, NC, NC-52.3 (Peedee),—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

344418077272701 Local number ON-355 at Camp Geiger, NC, NC-52.3 (Peedee),—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

344418077272701 Local number ON-355 at Camp Geiger, NC, NC-52.3 (Peedee),—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
2	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
3	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
4	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
5	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
6	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
7	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
8	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
9	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
10	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
11	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
12	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
13	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
14	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
15	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
16	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
17	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
18	---	---	---	---	---	---	---	---	---	1,470	1,470	1,470
19	---	---	---	---	---	---	1,470	1,460	1,470	1,470	1,470	1,470
20	---	---	---	---	---	---	1,470	1,460	1,470	1,470	1,470	1,470
21	---	---	---	---	---	---	1,470	1,460	1,470	1,470	1,470	1,470
22	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,470	1,470
23	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,460	1,470
24	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,460	1,470
25	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,460	1,470
26	---	---	---	---	---	---	1,470	1,450	1,470	1,470	1,460	1,470
27	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,460	1,470
28	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,460	1,470
29	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,460	1,470
30	---	---	---	---	---	---	1,470	1,470	1,470	1,470	1,460	1,470
31	---	---	---	---	---	---	1,470	1,470	1,470	---	---	---
Month	---	---	---	---	---	---	---	---	---	1,470	1,460	1,470