

Water-Data Report 2008

343609077171301 Local number ON-293, Sneads Ferry Road, at Camp Lejeune, NC (Castle Hayne)

Northern Atlantic Coastal Plain aquifer system

Castle Hayne Formation

Onslow County, NC

LOCATION.--Lat 34°36'09", long 77°17'11" referenced to North American Datum of 1983, Onslow County, NC, Hydrologic Unit 03030001, approximately 5.1 mi south on Sneads Ferry Road, at Camp Lejeune, NC. Owner: U.S. Geological Survey.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 235 ft, diameter 2 in., cased to 225 ft, screened interval from 225 ft to 235 ft.

DATUM.--Land-surface datum is 43.95 ft above North American Vertical Datum of 1988. Measuring point: top of casing, 2.75 ft above land-surface datum, November 1, 2007 to present.

PERIOD OF RECORD.--July 1988 to July 2005, December 2007 to current year.

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. Water levels affected by local pumping.

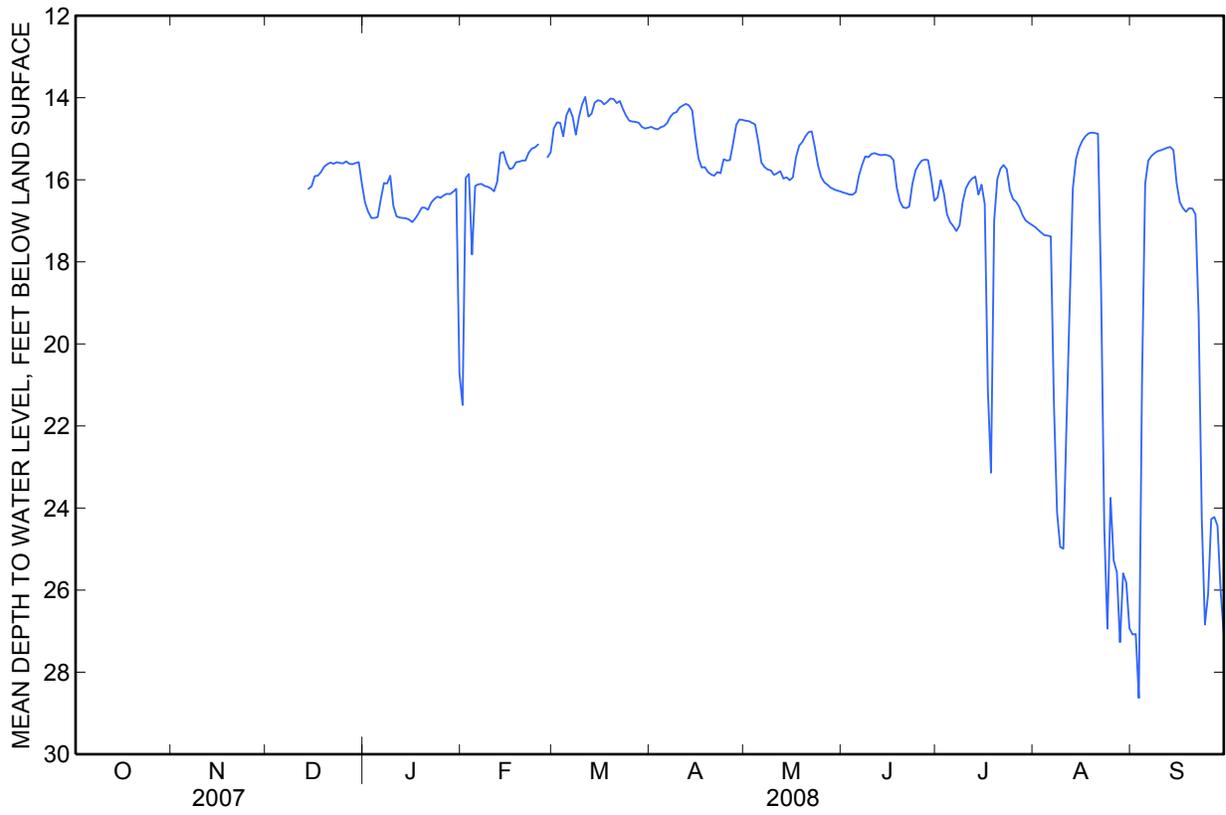
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 7.46 ft below land-surface datum, September 23, 24, 2000; lowest water level recorded, 30.13 ft below land-surface datum, December 4, 2007.

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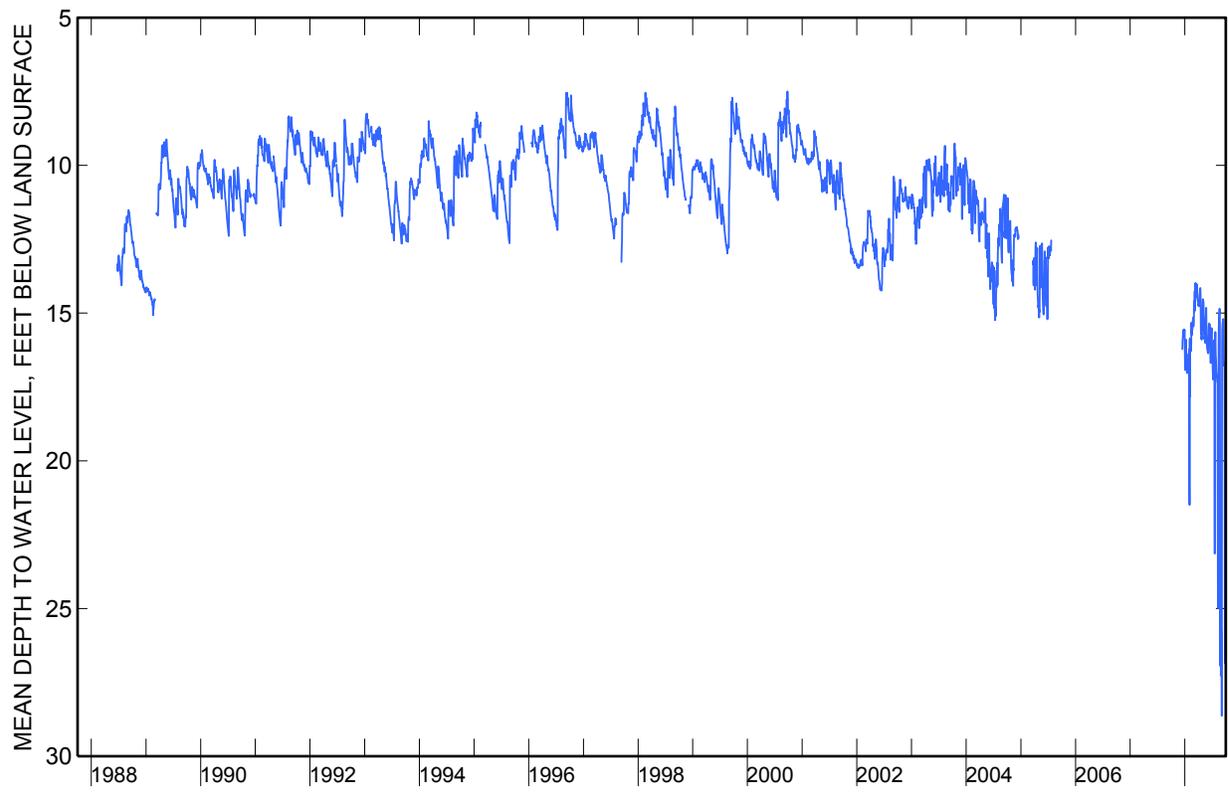
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	16.56	21.49	14.75	14.71	14.56	16.31	16.43	17.15	27.08
2	---	---	---	16.78	15.95	14.60	14.75	14.57	16.33	16.01	17.22	27.07
3	---	---	---	16.93	15.86	14.61	14.77	14.61	16.36	16.32	17.29	28.63
4	---	---	---	16.93	17.82	14.94	14.72	14.65	16.36	16.84	17.35	20.92
5	---	---	---	16.91	16.15	14.43	14.69	15.07	16.30	17.03	17.36	16.09
6	---	---	---	16.48	16.11	14.26	14.62	15.58	15.90	17.13	17.38	15.53
7	---	---	---	16.08	16.10	14.47	14.47	15.69	15.64	17.25	21.47	15.42
8	---	---	---	16.09	16.15	14.90	14.38	15.75	15.43	17.11	24.11	15.35
9	---	---	---	15.90	16.17	14.47	14.35	15.77	15.45	16.54	24.95	15.30
10	---	---	---	16.64	16.21	14.16	14.24	15.88	15.37	16.21	24.99	15.28
11	---	---	---	16.89	16.28	13.98	14.19	15.84	15.35	16.06	21.94	15.25
12	---	---	---	16.92	16.05	14.46	14.15	15.79	15.38	15.97	19.07	15.22
13	---	---	---	16.93	15.35	14.39	14.19	15.97	15.40	15.92	16.22	15.20
14	---	---	16.22	16.94	15.32	14.12	14.31	15.94	15.39	16.36	15.50	15.28
15	---	---	16.16	16.97	15.59	14.06	14.95	16.01	15.40	16.12	15.22	16.08
16	---	---	15.91	17.03	15.74	14.08	15.47	15.94	15.43	16.59	15.05	16.54
17	---	---	15.90	16.94	15.71	14.16	15.70	15.45	15.52	21.14	14.94	16.69
18	---	---	15.81	16.82	15.57	14.10	15.69	15.17	16.18	23.14	14.87	16.78
19	---	---	15.68	16.68	15.56	14.02	15.81	15.08	16.52	16.99	14.85	16.69
20	---	---	15.62	16.68	15.53	14.03	15.87	14.94	16.67	15.98	14.86	16.70
21	---	---	15.58	16.73	15.53	14.13	15.90	14.84	16.69	15.73	14.88	16.84
22	---	---	15.61	16.56	15.34	14.08	15.81	14.82	16.65	15.64	18.71	19.30
23	---	---	15.57	16.47	15.24	14.28	15.84	15.21	16.10	15.74	24.48	24.26
24	---	---	15.59	16.41	15.21	14.44	15.50	15.65	15.77	16.26	26.94	26.84
25	---	---	15.60	16.44	15.14	14.56	15.53	15.93	15.63	16.47	23.75	26.10
26	---	---	15.55	16.38	---	14.58	15.52	16.06	15.53	16.54	25.28	24.27
27	---	---	15.61	16.34	---	14.59	15.11	16.12	15.51	16.66	25.56	24.22
28	---	---	15.62	16.35	15.45	14.61	14.66	16.19	15.52	16.86	27.27	24.43
29	---	---	15.59	16.29	15.33	14.71	14.53	16.23	15.97	16.99	25.59	26.03
30	---	---	15.57	16.22	---	14.75	14.54	16.26	16.51	17.05	25.82	27.07
31	---	---	16.10	20.72	---	14.73	---	16.28	---	17.10	26.93	---
Mean	---	---	---	16.74	---	14.40	14.97	15.54	15.89	16.84	20.23	19.88
Max	---	---	---	20.72	---	14.94	15.90	16.28	16.69	23.14	27.27	28.63
Min	---	---	---	15.90	---	13.98	14.15	14.56	15.35	15.64	14.85	15.20

343609077171301 Local number ON-293, Sneads Ferry Road, at Camp Lejeune, NC (Castle Hayne)—Continued



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WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2008 to September 2008.

WATER TEMPERATURE: January 2008 to September 2008.

INSTRUMENTATION.--Water-quality monitor in operation from January 2008 to September 2008.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 940 microsiemens, January 31, 2008; minimum recorded, 872 microsiemens, on several days during the period.

WATER TEMPERATURE: Maximum recorded, 19.1°C, on several days during the period; minimum recorded, 18.6°C, July 10, 12, 13, 14.

**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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
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
	February			March			April			May		
1	19.0	18.8	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8
2	18.8	18.8	18.8	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8
3	18.8	18.8	18.8	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8
4	18.9	18.8	18.8	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8
5	18.8	18.8	18.8	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8
6	18.8	18.8	18.8	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8
7	18.8	18.8	18.8	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8
8	18.8	18.8	18.8	18.9	18.9	18.9	18.9	18.8	18.9	18.8	18.8	18.8
9	18.8	18.8	18.8	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
10	18.8	18.8	18.8	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
11	18.8	18.8	18.8	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
12	18.8	18.8	18.8	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
13	18.8	18.8	18.8	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
14	18.9	18.8	18.8	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
15	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
16	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
17	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
18	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
19	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
20	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	---	---	---
21	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
22	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
23	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
24	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
25	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
26	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
27	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
28	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
29	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
30	---	---	---	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
31	---	---	---	18.9	18.9	18.9	---	---	---	18.8	18.8	18.8
Month	19.0	18.8	18.9	18.9	18.9	18.9	18.9	18.8	18.8	---	---	---

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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	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.1	19.1
2	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.1	19.1
3	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.1	19.1
4	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	19.1	18.9	19.0
5	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	18.9	18.9	18.9
6	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	18.9	18.9	18.9
7	18.8	18.8	18.8	18.7	18.7	18.7	19.1	18.7	18.8	18.9	18.9	18.9
8	18.8	18.8	18.8	18.7	18.7	18.7	19.0	19.0	19.0	18.9	18.9	18.9
9	18.8	18.8	18.8	18.7	18.7	18.7	19.0	19.0	19.0	18.9	18.9	18.9
10	18.8	18.8	18.8	18.7	18.6	18.7	19.0	19.0	19.0	18.9	18.9	18.9
11	18.8	18.8	18.8	18.7	18.7	18.7	19.0	18.9	19.0	18.9	18.9	18.9
12	18.8	18.8	18.8	18.7	18.6	18.7	19.0	18.9	18.9	18.9	18.9	18.9
13	18.8	18.8	18.8	18.7	18.6	18.7	19.0	18.9	18.9	18.9	18.9	18.9
14	18.8	18.8	18.8	18.7	18.6	18.7	18.9	18.9	18.9	18.9	18.9	18.9
15	18.8	18.8	18.8	18.7	18.7	18.7	18.9	18.9	18.9	18.9	18.9	18.9
16	18.8	18.8	18.8	18.7	18.7	18.7	18.9	18.9	18.9	18.9	18.9	18.9
17	18.8	18.8	18.8	18.8	18.7	18.8	18.9	18.9	18.9	18.9	18.9	18.9
18	18.8	18.8	18.8	18.8	18.8	18.8	18.9	18.9	18.9	18.9	18.9	18.9
19	18.8	18.7	18.8	18.8	18.7	18.7	18.9	18.9	18.9	18.9	18.9	18.9
20	18.7	18.7	18.7	18.7	18.7	18.7	18.9	18.9	18.9	18.9	18.9	18.9
21	18.7	18.7	18.7	18.7	18.7	18.7	18.9	18.9	18.9	18.9	18.9	18.9
22	18.7	18.7	18.7	18.7	18.7	18.7	19.0	18.9	18.9	19.0	18.9	18.9
23	18.7	18.7	18.7	18.7	18.7	18.7	19.0	19.0	19.0	19.0	19.0	19.0
24	18.7	18.7	18.7	18.7	18.7	18.7	19.0	19.0	19.0	19.0	19.0	19.0
25	18.7	18.7	18.7	18.7	18.7	18.7	19.0	19.0	19.0	19.0	19.0	19.0
26	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.0	19.0	19.0	19.0	19.0
27	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.0	19.0	19.0	19.0	19.0
28	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.0	19.1	19.0	19.0	19.0
29	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.0	19.1	19.1	19.0	19.0
30	18.7	18.7	18.7	18.7	18.7	18.7	19.1	19.0	19.1	19.1	19.0	19.1
31	---	---	---	18.7	18.7	18.7	19.1	19.1	19.1	---	---	---
Month	18.8	18.7	18.8	18.8	18.6	18.7	19.1	18.7	18.9	19.1	18.9	19.0

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**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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

343609077171301 Local number ON-293, Sneads Ferry Road, at Camp Lejeune, NC (Castle Hayne)—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	933	928	930	896	896	896	881	881	881	876	876	876
2	928	923	925	896	895	896	881	879	880	877	876	877
3	923	920	922	896	894	896	880	879	879	878	877	877
4	920	918	919	895	894	894	879	879	879	879	878	878
5	918	916	917	894	894	894	879	879	879	880	879	880
6	916	914	915	894	894	894	879	878	879	881	880	880
7	914	912	913	894	893	894	879	877	877	882	881	881
8	912	911	911	893	892	892	878	877	877	882	882	882
9	911	909	910	892	892	892	877	877	877	883	880	882
10	909	908	908	892	891	892	877	877	877	881	880	880
11	908	907	907	892	891	891	877	876	877	881	880	880
12	907	905	906	891	890	890	876	875	876	880	879	879
13	905	904	905	890	889	890	875	875	875	879	877	878
14	904	903	904	889	889	889	875	875	875	878	877	878
15	903	902	902	889	889	889	875	874	875	878	878	878
16	902	901	901	889	888	889	874	874	874	879	878	878
17	901	900	900	888	888	888	874	874	874	879	878	879
18	900	899	900	888	887	887	874	874	874	879	879	879
19	900	899	899	887	887	887	874	874	874	880	879	879
20	899	899	899	887	886	887	874	873	873	---	---	---
21	899	899	899	886	885	886	874	873	873	881	880	881
22	899	899	899	886	885	885	874	874	874	880	879	880
23	899	898	899	885	885	885	874	874	874	879	878	878
24	899	898	898	885	884	885	874	873	873	878	876	876
25	898	898	898	885	883	883	873	873	873	877	876	876
26	898	898	898	883	883	883	874	873	873	877	876	877
27	898	898	898	883	883	883	875	874	874	878	877	877
28	898	896	897	883	882	883	875	874	874	879	878	878
29	897	896	896	883	881	882	875	874	874	879	878	879
30	---	---	---	881	881	881	876	875	875	879	878	879
31	---	---	---	881	881	881	---	---	---	878	878	878
Month	933	896	906	896	881	889	881	873	876	---	---	---

343609077171301 Local number ON-293, Sneads Ferry Road, at Camp Lejeune, NC (Castle Hayne)—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	879	878	878	874	873	874	877	876	877	876	876	876
2	879	878	879	874	873	874	878	877	877	876	876	876
3	879	879	879	874	874	874	878	878	878	876	876	876
4	879	879	879	874	873	873	879	878	879	876	876	876
5	879	879	879	873	873	873	880	879	879	876	876	876
6	879	878	879	874	873	873	880	880	880	876	876	876
7	878	878	878	874	874	874	880	878	879	876	876	876
8	878	878	878	874	873	874	878	877	877	876	876	876
9	878	878	878	874	873	874	877	877	877	876	876	876
10	878	878	878	874	873	874	877	877	877	876	876	876
11	878	878	878	874	872	873	877	877	877	876	876	876
12	878	878	878	873	872	873	877	877	877	876	875	876
13	878	877	878	873	872	873	877	877	877	876	876	876
14	877	877	877	873	873	873	877	877	877	876	876	876
15	877	877	877	873	873	873	877	877	877	876	876	876
16	877	877	877	873	873	873	877	877	877	876	876	876
17	877	877	877	874	873	873	877	877	877	876	875	876
18	877	877	877	874	873	873	877	877	877	876	876	876
19	877	877	877	873	872	872	877	877	877	876	875	876
20	877	875	876	872	872	872	877	877	877	876	875	876
21	876	875	875	873	872	873	877	877	877	876	875	876
22	876	875	875	873	873	873	877	877	877	876	875	876
23	875	875	875	874	873	873	878	877	877	876	876	876
24	875	875	875	874	873	874	878	877	877	876	876	876
25	875	875	875	874	873	873	878	877	877	876	876	876
26	875	875	875	874	873	874	878	876	877	876	876	876
27	875	873	874	875	874	874	876	876	876	876	876	876
28	874	873	873	875	874	875	876	876	876	876	876	876
29	874	873	874	876	875	876	876	876	876	876	876	876
30	874	873	873	877	876	876	876	876	876	876	876	876
31	---	---	---	877	876	877	876	876	876	---	---	---
Month	879	873	877	877	872	874	880	876	877	876	875	876