

Water-Data Report 2007

**02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC**

Roanoke Basin  
Lower Roanoke Subbasin

LOCATION.--Lat 35°55'39", long 76°50'42" referenced to North American Datum of 1983, Bertie County, NC, Hydrologic Unit 03010107, approximately 2.5 mi upstream from Sans Souci Ferry and about 1.5 mi northwest of Sans Souci.

DRAINAGE AREA.--287 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March 2007 to November 2007 (discontinued).

GAGE.--Water-stage recorder and acoustic doppler velocity meter. Datum of gage is 10 ft below NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. This site is strongly affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. Daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge. Negative values represent upstream direction of flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,470 ft<sup>3</sup>/s, August 10, 2007; maximum gage height, 12.60 ft, May 6, 2007; minimum discharge, -3,880 ft<sup>3</sup>/s, May 21, 2007.

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

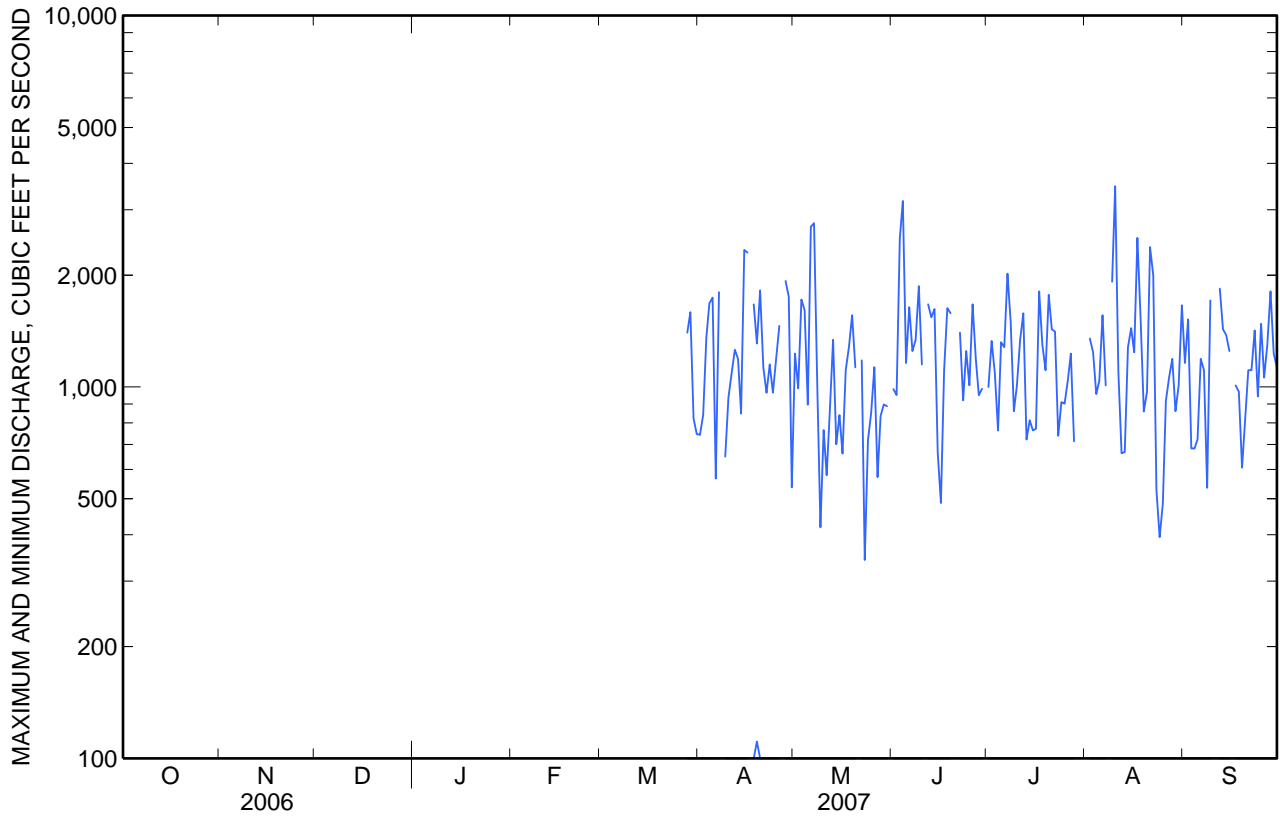
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
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28	---	---	---	---	---	---	---	---	---	---	1,400	-2,240
29	---	---	---	---	---	---	---	---	---	---	1,590	-1,210
30	---	---	---	---	---	---	---	---	---	---	822	-604
31	---	---	---	---	---	---	---	---	---	---	747	-847
Month	---	---	---	---	---	---	---	---	---	---	---	---

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	743	-798	1,230	-889	987	-1,450	1,000	-1,190	---	---	1,160	-1,810
2	840	-1,150	992	-1,700	951	-1,290	1,330	-2,290	1,350	-1,700	1,520	-1,550
3	1,360	-1,280	1,720	-2,720	2,510	-2,820	1,090	-1,740	1,240	-1,310	683	-1,120
4	1,680	-1,500	1,610	-994	3,170	-1,720	763	-1,240	957	-1,550	683	-937
5	1,740	-1,690	896	-868	1,160	-1,630	1,320	-1,310	1,040	-1,980	723	-1,490
6	567	-1,120	2,700	-2,200	1,640	-1,880	1,280	-2,740	1,560	-1,600	1,190	-893
7	1,800	-957	2,760	-1,040	1,250	-1,140	2,020	-1,770	1,010	-1,120	1,110	-1,000
8	---	---	1,020	-715	1,340	-2,430	1,500	-1,050	---	---	535	-1,320
9	649	-1,750	419	-1,590	1,870	-2,520	861	-1,300	1,920	-1,360	1,710	-1,440
10	936	-2,000	766	-938	1,150	-1,380	1,010	-1,810	3,470	-2,560	---	---
11	1,090	-1,300	579	-1,180	---	---	1,340	-1,500	1,100	-1,500	---	---
12	1,260	-568	869	-1,850	1,670	-1,930	1,580	-2,290	663	-871	1,840	-2,660
13	1,190	-731	1,340	-2,180	1,540	-2,630	722	-1,300	668	-1,170	1,430	-1,640
14	848	-1,220	701	-969	1,620	-2,230	813	-1,360	1,280	-820	1,380	-1,450
15	2,340	-1,060	840	-1,340	666	-1,300	764	-1,280	1,440	-1,450	1,250	-1,930
16	2,300	-1,790	662	-1,420	487	-1,490	772	-1,440	1,240	-1,250	---	---
17	---	---	1,110	-1,560	1,110	-1,200	1,810	-2,120	2,520	-2,310	1,010	-1,850
18	1,670	-209	1,280	-635	1,630	-2,010	1,300	-1,950	1,530	-2,250	971	-853
19	1,310	111	1,560	-377	1,580	-1,750	1,110	-1,000	859	-1,230	606	-1,090
20	1,820	-686	1,130	-1,360	---	---	1,770	-1,750	970	-1,700	824	-1,190
21	1,130	-580	---	---	---	---	1,430	-990	2,380	-1,110	1,110	-1,070
22	965	-827	1,180	-1,430	1,400	-2,280	1,410	-2,030	2,000	-2,530	1,110	-767
23	1,150	-1,200	342	-1,440	920	-2,180	739	-861	527	-1,420	1,420	-1,010
24	966	-1,010	718	-689	1,250	-1,550	911	-1,230	394	-939	943	-927
25	1,190	-1,240	852	-1,060	1,010	-1,550	902	-988	485	-1,060	1,480	-991
26	1,460	-1,510	1,130	-1,040	1,670	-936	1,040	-919	917	-1,250	1,060	-1,670
27	---	---	572	-801	1,190	-690	1,230	-1,170	1,060	-1,380	1,300	-1,310
28	1,930	-275	835	-1,150	950	-927	714	-1,960	1,190	-1,120	1,810	-1,110
29	1,750	-1,360	897	-1,330	989	-1,850	---	---	860	-1,430	1,230	-1,160
30	537	-1,120	887	-1,670	---	---	---	---	1,010	-1,200	1,130	-1,720
31	---	---	---	---	---	---	---	---	1,660	-1,120	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued



## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

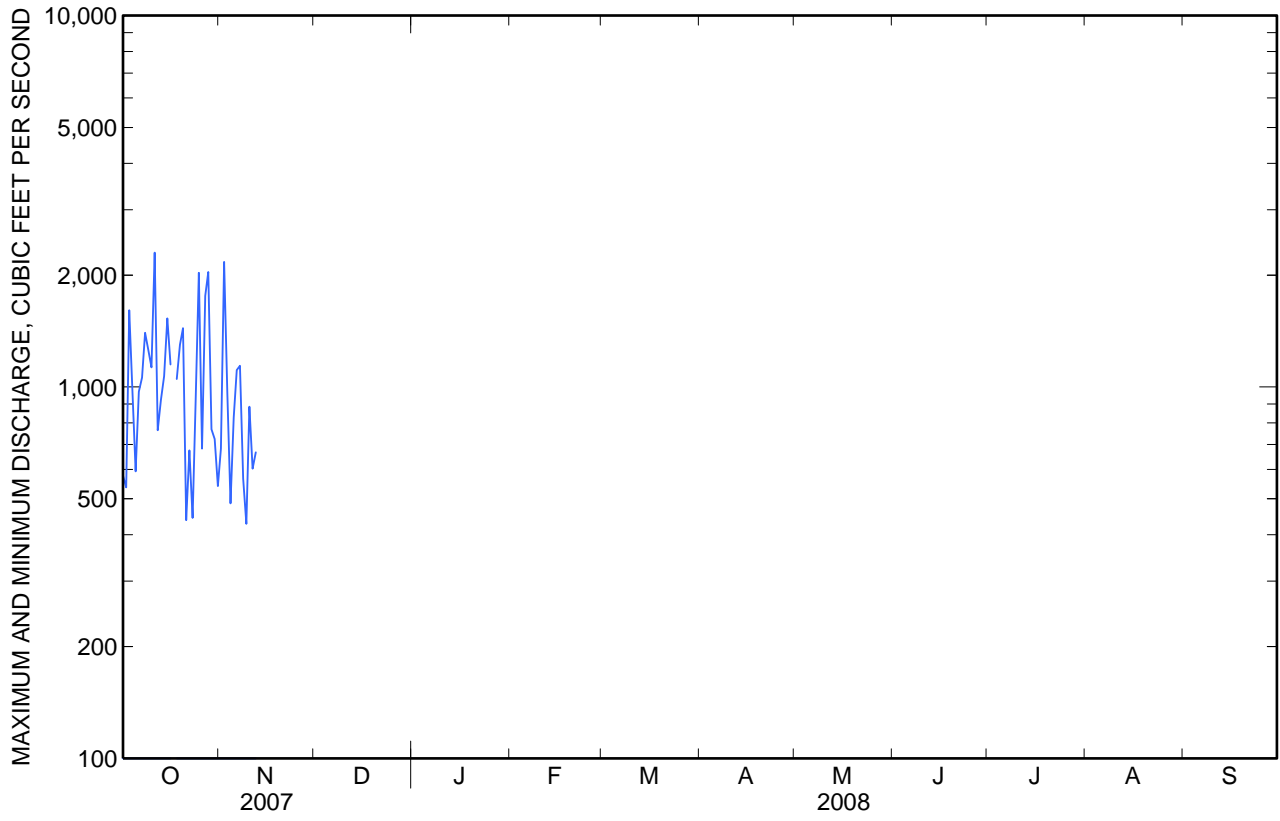
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	577	-1,530	682	-879	---	---	---	---	---	---	---	---
2	537	-2,100	2,170	-2,870	---	---	---	---	---	---	---	---
3	1,610	-1,400	965	-784	---	---	---	---	---	---	---	---
4	973	-1,020	486	-1,290	---	---	---	---	---	---	---	---
5	593	-1,520	828	-772	---	---	---	---	---	---	---	---
6	972	-1,950	1,110	-1,080	---	---	---	---	---	---	---	---
7	1,060	-1,320	1,140	-875	---	---	---	---	---	---	---	---
8	1,400	-1,330	567	-558	---	---	---	---	---	---	---	---
9	1,260	-1,310	428	-611	---	---	---	---	---	---	---	---
10	1,130	-1,150	885	-1,020	---	---	---	---	---	---	---	---
11	2,300	-1,500	603	-492	---	---	---	---	---	---	---	---
12	765	-1,030	667	-744	---	---	---	---	---	---	---	---
13	923	-1,060	---	---	---	---	---	---	---	---	---	---
14	1,070	-1,530	---	---	---	---	---	---	---	---	---	---
15	1,530	-1,320	---	---	---	---	---	---	---	---	---	---
16	1,150	-1,310	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	1,050	-1,680	---	---	---	---	---	---	---	---	---	---
19	1,300	-1,500	---	---	---	---	---	---	---	---	---	---
20	1,440	-1,250	---	---	---	---	---	---	---	---	---	---
21	438	-1,610	---	---	---	---	---	---	---	---	---	---
22	675	-1,180	---	---	---	---	---	---	---	---	---	---
23	444	-880	---	---	---	---	---	---	---	---	---	---
24	915	-1,700	---	---	---	---	---	---	---	---	---	---
25	2,030	-2,150	---	---	---	---	---	---	---	---	---	---
26	682	-1,270	---	---	---	---	---	---	---	---	---	---
27	1,760	-1,160	---	---	---	---	---	---	---	---	---	---
28	2,040	-1,470	---	---	---	---	---	---	---	---	---	---
29	769	-1,250	---	---	---	---	---	---	---	---	---	---
30	724	-1,140	---	---	---	---	---	---	---	---	---	---
31	541	-1,010	---	---	---	---	---	---	---	---	---	---
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02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	---	---	---	---	---	---	---	---
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02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued



**02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2007, 2008.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March to November 2007.

pH: March to November 2007.

WATER TEMPERATURE: March to November 2007.

DISSOLVED OXYGEN: March to November 2007.

DISSOLVED OXYGEN, PERCENT SATURATION: March to November 2007.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry March to November 2007.

REMARKS.--Station operated in cooperation with the U.S. Army Corps of Engineers. Water quality data collected seasonally from April through October. The dissolved oxygen is computed using a barometric pressure of 760 mm of Hg.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 120 microsiemens, October 24, 25, 2007; minimum recorded, 56 microsiemens, April 25, May 1, 2007.

pH: Maximum recorded, 8.9 standard units, July 20, 2007; minimum recorded, 5.7 standard units, on several days during the period.

WATER TEMPERATURE: Maximum recorded, 32.9°C, August 9, 2007; minimum recorded, 13.8°C, April 19, 20, 2007.

DISSOLVED OXYGEN: Maximum recorded, 10.2 mg/L, June 28, 2007, July 27, 2007; minimum recorded, 1.6 mg/L, August 31, 2007, September 11, 2007.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 135%, July 27, 2007; minimum recorded, 20%, September 11, 2007.



## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

[Remark codes: &lt;, less than.]

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
<b>Apr</b>								
03...	1245	Environmental	246	5.8	6.0	70	13.4	1.7
24...	1115	Environmental	301	6.2	6.2	60	15.3	1.5
<b>May</b>								
01...	1030	Environmental	307	3.4	6.0	63	14.5	<2.0
15...	1100	Environmental	660	2.9	6.2	67	17.2	1.1
15...	1105	Blank	660	2.9	6.2	67	17.2	<1.0
29...	1345	Environmental	-798	.8	5.9	76	19.8	2.3
<b>Jun</b>								
12...	0930	Environmental	-571	.4	6.4	89	23.3	1.2
12...	0935	Blank	-571	.4	6.4	89	23.3	<1.0
26...	1145	Environmental	486	.6	6.6	98	23.7	<1.0
26...	1150	Blank	486	.6	6.6	98	23.7	<1.0
<b>Jul</b>								
17...	1015	Environmental	396	.5	6.5	104	26.0	1.4
17...	1030	Blank	396	.5	6.5	104	26.0	<1.0
31...	1045	Environmental	-343	.6	6.5	107	26.0	2.8
31...	1050	Blank	-343	.6	6.5	107	26.0	<1.0
<b>Aug</b>								
14...	1030	Environmental	18	.2	6.6	108	28.1	2.5
14...	1045	Blank	18	.2	6.6	108	28.1	<1.0
<b>Sep</b>								
04...	1315	Environmental	207	2.7	6.7	110	27.7	1.5
04...	1320	Blank	207	2.7	6.7	110	27.7	<1.0
18...	1015	Environmental	-264	3.9	6.8	109	25.7	<1.0
18...	1030	Blank	-264	3.9	6.8	109	25.7	<1.0

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

[Remark codes: &lt;, less than.]

Date	Time	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
<b>Oct</b>							
03...	0845	-638	6.4	6.7	118	24.6	1.0
<b>Nov</b>							
06...	0830	-333	5.0	6.9	113	17.9	<1.0

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	---	---	---	---	---	---	69	65	67	61	56	59
<b>2</b>	---	---	---	---	---	---	70	67	68	63	57	59
<b>3</b>	---	---	---	---	---	---	74	69	71	68	61	64
<b>4</b>	---	---	---	---	---	---	74	70	71	66	62	63
<b>5</b>	---	---	---	---	---	---	72	70	71	67	62	63
<b>6</b>	---	---	---	---	---	---	75	70	72	74	63	66
<b>7</b>	---	---	---	---	---	---	73	70	72	69	62	63
<b>8</b>	---	---	---	---	---	---	73	71	71	64	61	62
<b>9</b>	---	---	---	---	---	---	75	71	72	66	62	64
<b>10</b>	---	---	---	---	---	---	---	---	---	70	65	67
<b>11</b>	---	---	---	---	---	---	74	72	73	74	67	71
<b>12</b>	---	---	---	---	---	---	74	71	72	72	66	69
<b>13</b>	---	---	---	---	---	---	74	71	72	71	65	69
<b>14</b>	---	---	---	---	---	---	75	71	72	70	65	67
<b>15</b>	---	---	---	---	---	---	73	68	71	72	66	69
<b>16</b>	---	---	---	---	---	---	79	69	74	71	67	69
<b>17</b>	---	---	---	---	---	---	87	78	84	72	69	70
<b>18</b>	---	---	---	---	---	---	83	62	71	72	67	69
<b>19</b>	---	---	---	---	---	---	62	57	58	68	66	67
<b>20</b>	---	---	---	---	---	---	60	57	58	71	66	67
<b>21</b>	---	---	---	---	---	---	59	58	58	71	67	69
<b>22</b>	---	---	---	---	---	---	62	58	59	75	69	72
<b>23</b>	---	---	---	---	---	---	60	58	59	78	73	76
<b>24</b>	---	---	---	---	---	---	60	58	59	80	76	78
<b>25</b>	---	---	---	---	---	---	62	56	58	82	78	80
<b>26</b>	---	---	---	---	---	---	61	57	59	84	77	80
<b>27</b>	---	---	---	---	---	---	62	57	59	84	76	80
<b>28</b>	---	---	---	65	60	63	61	58	59	84	75	79
<b>29</b>	---	---	---	66	62	63	61	57	59	82	75	78
<b>30</b>	---	---	---	65	63	64	60	57	58	82	77	80
<b>31</b>	---	---	---	68	64	66	---	---	---	85	80	83
<b>Month</b>	---	---	---	---	---	---	---	---	---	85	56	70

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
<b>1</b>	88	82	84	97	94	96	107	104	106	105	103	104
<b>2</b>	88	84	87	97	94	96	106	103	105	105	104	104
<b>3</b>	91	85	88	97	94	95	108	104	106	106	103	105
<b>4</b>	90	82	84	97	94	96	108	105	107	105	103	104
<b>5</b>	86	81	84	98	95	97	109	105	107	106	103	105
<b>6</b>	86	81	83	99	96	97	109	106	107	106	104	105
<b>7</b>	87	82	84	100	96	98	109	105	107	106	104	105
<b>8</b>	89	84	87	100	97	98	112	106	109	106	104	105
<b>9</b>	90	85	88	102	98	99	112	107	109	105	103	104
<b>10</b>	89	86	88	103	101	102	111	105	109	106	103	104
<b>11</b>	91	87	88	103	98	100	107	104	105	106	103	105
<b>12</b>	92	88	90	100	97	99	105	103	105	108	105	106
<b>13</b>	92	89	91	100	98	100	107	104	106	107	105	106
<b>14</b>	92	89	91	101	98	100	108	103	106	107	104	106
<b>15</b>	90	88	89	101	98	100	108	105	107	106	103	104
<b>16</b>	92	88	90	103	100	101	108	104	107	105	103	104
<b>17</b>	94	91	93	104	99	102	108	105	107	105	103	104
<b>18</b>	94	91	93	101	97	99	109	103	106	104	102	103
<b>19</b>	97	92	94	101	97	99	106	103	105	104	102	103
<b>20</b>	100	93	97	101	98	100	107	102	105	104	103	103
<b>21</b>	97	92	94	101	97	99	107	99	104	105	103	104
<b>22</b>	95	92	93	99	96	98	106	100	103	106	102	104
<b>23</b>	97	93	94	99	95	97	106	103	104	103	101	102
<b>24</b>	99	94	96	101	95	98	107	104	105	103	100	101
<b>25</b>	101	97	99	103	97	100	107	105	106	103	101	102
<b>26</b>	102	95	98	106	98	103	107	105	106	103	101	102
<b>27</b>	101	96	99	109	103	106	107	105	106	104	102	103
<b>28</b>	102	97	99	109	105	107	106	104	105	104	101	102
<b>29</b>	101	97	99	110	103	108	106	104	105	102	100	101
<b>30</b>	99	94	97	110	106	108	107	104	105	103	100	102
<b>31</b>	---	---	---	108	104	106	106	103	104	---	---	---
<b>Month</b>	102	81	91	110	94	100	112	99	106	108	100	104

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—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	103	100	102	109	105	107	---	---	---	---	---	---
2	104	101	102	115	106	109	---	---	---	---	---	---
3	104	101	102	106	103	104	---	---	---	---	---	---
4	107	102	105	108	105	106	---	---	---	---	---	---
5	109	106	107	110	106	108	---	---	---	---	---	---
6	108	105	107	112	109	111	---	---	---	---	---	---
7	108	104	106	111	106	108	---	---	---	---	---	---
8	107	104	105	108	106	107	---	---	---	---	---	---
9	106	104	105	108	106	107	---	---	---	---	---	---
10	107	103	106	110	106	109	---	---	---	---	---	---
11	107	103	105	108	104	106	---	---	---	---	---	---
12	105	102	103	110	106	108	---	---	---	---	---	---
13	106	103	105	---	---	---	---	---	---	---	---	---
14	111	104	106	---	---	---	---	---	---	---	---	---
15	109	105	107	---	---	---	---	---	---	---	---	---
16	109	106	108	---	---	---	---	---	---	---	---	---
17	109	107	108	---	---	---	---	---	---	---	---	---
18	112	105	109	---	---	---	---	---	---	---	---	---
19	116	110	113	---	---	---	---	---	---	---	---	---
20	116	109	113	---	---	---	---	---	---	---	---	---
21	114	109	110	---	---	---	---	---	---	---	---	---
22	114	108	111	---	---	---	---	---	---	---	---	---
23	114	110	112	---	---	---	---	---	---	---	---	---
24	120	113	116	---	---	---	---	---	---	---	---	---
25	120	111	117	---	---	---	---	---	---	---	---	---
26	115	111	113	---	---	---	---	---	---	---	---	---
27	115	108	112	---	---	---	---	---	---	---	---	---
28	110	106	107	---	---	---	---	---	---	---	---	---
29	107	104	106	---	---	---	---	---	---	---	---	---
30	108	104	106	---	---	---	---	---	---	---	---	---
31	109	106	107	---	---	---	---	---	---	---	---	---
<b>Month</b>	120	100	108	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	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	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---



## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	6.1	5.9	6.0	6.0	5.8	5.9
2	---	---	---	---	---	---	6.1	5.9	6.0	6.0	5.7	5.9
3	---	---	---	---	---	---	6.2	6.0	6.0	6.0	5.8	5.9
4	---	---	---	---	---	---	6.3	6.0	6.1	5.9	5.8	5.8
5	---	---	---	---	---	---	6.2	6.0	6.1	5.8	5.8	5.8
6	---	---	---	---	---	---	6.2	6.1	6.1	6.1	5.8	5.9
7	---	---	---	---	---	---	6.2	6.1	6.1	5.9	5.7	5.7
8	---	---	---	---	---	---	6.2	6.1	6.1	5.8	5.7	5.7
9	---	---	---	---	---	---	6.2	6.1	6.1	5.9	5.8	5.8
10	---	---	---	---	---	---	---	---	---	6.0	5.8	5.9
11	---	---	---	---	---	---	6.2	6.1	6.1	6.1	5.9	6.0
12	---	---	---	---	---	---	6.2	6.1	6.1	6.1	5.9	6.0
13	---	---	---	---	---	---	6.2	6.1	6.2	6.1	5.8	6.0
14	---	---	---	---	---	---	6.2	6.1	6.2	6.1	5.9	5.9
15	---	---	---	---	---	---	6.2	6.1	6.2	6.1	5.9	6.0
16	---	---	---	---	---	---	6.1	6.0	6.1	6.2	6.0	6.0
17	---	---	---	---	---	---	6.2	6.1	6.1	6.3	6.1	6.2
18	---	---	---	---	---	---	6.1	5.9	6.0	6.2	6.0	6.0
19	---	---	---	---	---	---	5.9	5.8	5.8	6.0	5.9	6.0
20	---	---	---	---	---	---	5.8	5.8	5.8	6.0	5.9	6.0
21	---	---	---	---	---	---	5.8	5.7	5.8	6.2	6.0	6.0
22	---	---	---	---	---	---	5.8	5.7	5.8	6.3	6.0	6.1
23	---	---	---	---	---	---	5.8	5.7	5.8	6.4	6.2	6.2
24	---	---	---	---	---	---	5.8	5.8	5.8	6.7	6.3	6.4
25	---	---	---	---	---	---	5.9	5.8	5.8	6.8	6.4	6.5
26	---	---	---	---	---	---	6.1	5.8	5.9	6.8	6.3	6.6
27	---	---	---	---	---	---	5.9	5.8	5.9	6.9	6.4	6.6
28	---	---	---	6.1	5.8	5.9	6.0	5.8	5.9	7.0	6.4	6.6
29	---	---	---	6.0	5.9	5.9	6.0	5.8	5.8	6.8	6.4	6.6
30	---	---	---	6.0	5.9	5.9	6.0	5.8	5.8	6.8	6.4	6.6
31	---	---	---	6.0	5.9	6.0	---	---	---	6.7	6.4	6.5
<b>Max</b>	---	---	---	---	---	---	---	---	---	7.0	6.4	6.6
<b>Min</b>	---	---	---	---	---	---	---	---	---	5.8	5.7	5.7

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	6.8	6.4	6.5	7.8	6.9	7.2	8.7	7.1	7.7	6.4	6.0	6.2
2	7.0	6.5	6.6	7.3	6.8	7.0	8.6	7.0	7.2	6.3	6.0	6.1
3	6.8	6.3	6.5	7.4	6.8	6.9	8.4	7.0	7.3	6.4	6.0	6.1
4	6.5	6.1	6.2	7.3	6.8	7.0	7.7	7.1	7.3	6.6	6.1	6.2
5	6.5	6.1	6.3	7.3	6.8	7.1	7.2	6.9	7.0	7.0	6.3	6.4
6	6.5	6.2	6.3	8.0	6.9	7.2	6.9	6.6	6.7	7.3	6.3	6.6
7	6.8	6.3	6.3	7.3	6.8	7.0	7.1	6.8	6.8	6.7	6.3	6.4
8	6.7	6.5	6.6	7.5	6.8	7.0	7.6	6.8	7.0	6.5	6.2	6.3
9	7.1	6.4	6.6	8.0	7.0	7.3	7.6	6.8	7.0	6.4	6.2	6.3
10	6.7	6.4	6.5	7.8	7.1	7.3	7.2	6.6	7.0	6.3	6.1	6.2
11	6.7	6.5	6.5	8.1	6.8	7.4	6.8	6.5	6.6	6.5	6.1	6.3
12	6.7	6.5	6.6	8.0	6.9	7.3	6.9	6.6	6.7	6.6	6.2	6.3
13	6.7	6.5	6.6	8.2	7.2	7.5	6.8	6.6	6.7	6.4	6.2	6.2
14	6.6	6.5	6.6	7.9	6.8	7.3	7.1	6.7	6.8	6.4	6.2	6.2
15	6.6	6.4	6.5	8.4	7.0	7.5	6.9	6.6	6.8	6.4	6.2	6.3
16	6.7	6.4	6.5	8.6	7.1	7.5	7.2	6.7	6.8	6.4	6.2	6.2
17	7.0	6.6	6.8	8.7	6.9	7.4	7.0	6.6	6.7	6.4	6.2	6.2
18	7.1	6.5	6.8	7.5	6.7	6.9	7.0	6.5	6.6	6.5	6.1	6.2
19	7.5	6.6	6.9	8.5	6.8	7.0	6.7	6.5	6.6	6.4	6.1	6.2
20	7.3	6.5	6.9	8.9	7.1	8.1	7.1	6.6	6.6	6.3	6.2	6.2
21	7.0	6.7	6.8	8.2	6.8	7.3	7.0	6.6	6.8	6.5	6.2	6.2
22	7.2	6.7	6.8	7.2	6.7	6.8	6.8	6.5	6.6	6.5	6.2	6.2
23	7.0	6.6	6.7	7.0	6.5	6.7	7.9	6.4	6.8	6.8	6.2	6.3
24	7.2	6.6	6.8	8.1	6.7	6.8	7.0	6.2	6.4	7.0	6.2	6.5
25	7.3	6.7	6.8	8.7	7.0	7.3	7.6	6.3	6.7	6.8	6.3	6.5
26	7.2	6.7	7.0	8.7	7.1	7.8	7.7	6.4	6.8	6.8	6.2	6.5
27	7.7	6.9	7.2	8.6	7.6	8.2	7.5	6.4	6.6	6.9	6.3	6.5
28	7.8	7.0	7.2	8.7	7.3	8.2	6.9	6.2	6.5	6.8	6.3	6.5
29	7.6	6.8	7.2	8.7	7.4	8.3	6.7	6.2	6.4	6.4	6.1	6.2
30	7.5	6.7	7.1	8.3	6.9	7.7	6.6	6.1	6.4	6.3	6.1	6.2
31	---	---	---	8.5	7.0	7.7	6.5	6.0	6.2	---	---	---
Max	7.8	7.0	7.2	8.9	7.6	8.3	8.7	7.1	7.7	7.3	6.3	6.6
Min	6.5	6.1	6.2	7.0	6.5	6.7	6.5	6.0	6.2	6.3	6.0	6.1

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	6.4	6.1	6.2	6.5	6.4	6.5	---	---	---	---	---	---
2	6.4	6.2	6.3	6.6	6.4	6.5	---	---	---	---	---	---
3	6.6	6.2	6.3	6.5	6.4	6.4	---	---	---	---	---	---
4	7.2	6.4	6.7	6.6	6.4	6.4	---	---	---	---	---	---
5	7.0	6.6	6.8	6.6	6.5	6.5	---	---	---	---	---	---
6	7.2	6.5	6.7	6.6	6.5	6.5	---	---	---	---	---	---
7	6.9	6.6	6.8	6.6	6.5	6.5	---	---	---	---	---	---
8	7.6	6.5	6.8	6.5	6.5	6.5	---	---	---	---	---	---
9	7.3	6.5	6.8	6.5	6.5	6.5	---	---	---	---	---	---
10	7.6	6.5	6.9	6.5	6.5	6.5	---	---	---	---	---	---
11	7.1	6.3	6.5	6.6	6.5	6.5	---	---	---	---	---	---
12	6.5	6.3	6.3	6.6	6.5	6.5	---	---	---	---	---	---
13	6.6	6.3	6.4	---	---	---	---	---	---	---	---	---
14	6.8	6.5	6.5	---	---	---	---	---	---	---	---	---
15	6.7	6.5	6.5	---	---	---	---	---	---	---	---	---
16	6.6	6.5	6.5	---	---	---	---	---	---	---	---	---
17	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
18	6.8	6.4	6.6	---	---	---	---	---	---	---	---	---
19	6.9	6.6	6.7	---	---	---	---	---	---	---	---	---
20	6.9	6.6	6.7	---	---	---	---	---	---	---	---	---
21	6.9	6.4	6.6	---	---	---	---	---	---	---	---	---
22	7.1	6.5	6.6	---	---	---	---	---	---	---	---	---
23	7.1	6.6	6.7	---	---	---	---	---	---	---	---	---
24	7.4	6.6	7.0	---	---	---	---	---	---	---	---	---
25	7.1	6.6	6.9	---	---	---	---	---	---	---	---	---
26	6.8	6.6	6.7	---	---	---	---	---	---	---	---	---
27	6.8	6.6	6.7	---	---	---	---	---	---	---	---	---
28	6.6	6.5	6.5	---	---	---	---	---	---	---	---	---
29	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
30	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
31	6.5	6.4	6.4	---	---	---	---	---	---	---	---	---
<b>Max</b>	7.6	6.6	7.0	---	---	---	---	---	---	---	---	---
<b>Min</b>	6.4	6.1	6.2	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
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	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
1	---	---	---	---	---	---	19.0	17.1	18.0	23.4	21.2	22.0
2	---	---	---	---	---	---	21.7	17.4	19.1	25.8	21.3	22.6
3	---	---	---	---	---	---	21.7	18.8	20.0	23.7	21.4	22.7
4	---	---	---	---	---	---	21.9	19.5	20.3	21.5	20.3	20.7
5	---	---	---	---	---	---	20.6	17.7	18.8	20.7	19.8	20.1
6	---	---	---	---	---	---	18.6	16.8	17.5	20.6	17.2	19.7
7	---	---	---	---	---	---	17.4	15.1	16.1	18.0	16.7	17.2
8	---	---	---	---	---	---	16.5	14.6	15.2	18.0	16.7	17.3
9	---	---	---	---	---	---	16.4	14.6	15.1	19.2	17.3	17.9
10	---	---	---	---	---	---	---	---	---	20.9	18.2	19.1
11	---	---	---	---	---	---	15.7	14.2	14.6	21.8	19.2	20.3
12	---	---	---	---	---	---	17.0	14.3	15.3	22.6	19.9	21.5
13	---	---	---	---	---	---	17.1	15.0	15.8	22.5	20.2	21.5
14	---	---	---	---	---	---	16.2	15.2	15.6	22.2	19.3	20.3
15	---	---	---	---	---	---	16.6	15.4	15.8	21.7	19.5	20.5
16	---	---	---	---	---	---	15.8	14.8	15.2	22.3	20.5	21.4
17	---	---	---	---	---	---	15.6	14.7	15.1	23.3	21.7	22.4
18	---	---	---	---	---	---	15.4	14.0	14.8	21.9	20.3	21.1
19	---	---	---	---	---	---	15.3	13.8	14.1	21.8	19.8	20.7
20	---	---	---	---	---	---	16.9	13.8	14.8	22.6	20.0	20.9
21	---	---	---	---	---	---	17.6	14.0	15.3	24.5	20.6	21.5
22	---	---	---	---	---	---	18.3	14.1	15.3	22.6	20.5	21.3
23	---	---	---	---	---	---	19.0	14.7	16.9	23.2	21.1	22.1
24	---	---	---	---	---	---	19.1	16.7	18.0	24.1	21.7	22.6
25	---	---	---	---	---	---	21.1	16.9	18.7	24.8	22.1	22.8
26	---	---	---	---	---	---	22.3	18.5	20.6	25.7	22.8	24.0
27	---	---	---	---	---	---	21.7	19.1	20.5	26.6	24.0	25.0
28	---	---	---	21.0	17.4	18.3	22.6	20.7	21.6	27.1	25.0	26.0
29	---	---	---	18.3	16.8	17.6	22.9	20.5	21.3	28.3	25.3	26.4
30	---	---	---	19.4	15.8	16.9	23.3	20.4	21.4	27.3	25.3	26.3
31	---	---	---	18.8	16.1	17.0	---	---	---	27.3	25.1	25.9
<b>Month</b>	---	---	---	---	---	---	---	---	---	28.3	16.7	21.7

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	27.7	25.3	26.0	29.7	28.3	28.8	30.8	28.3	29.2	29.5	28.4	28.8
2	27.4	25.9	26.5	29.0	27.5	28.1	30.2	28.3	29.0	28.9	28.1	28.3
3	26.6	23.6	24.9	28.9	27.1	27.6	30.5	28.6	29.3	29.4	27.7	28.3
4	24.9	23.2	23.8	28.8	27.0	27.7	30.8	29.0	29.7	29.5	27.7	28.3
5	26.8	24.4	25.5	28.8	27.2	27.9	31.0	29.4	30.1	29.6	27.9	28.5
6	27.1	25.3	26.1	30.6	27.6	28.8	30.7	29.0	30.0	30.0	28.1	28.7
7	28.1	25.3	25.8	30.3	27.9	28.8	32.1	29.8	30.4	29.5	27.9	28.5
8	27.6	25.8	26.8	29.9	28.2	28.9	32.8	30.7	31.3	29.1	27.7	28.3
9	30.2	26.7	28.2	31.2	29.1	29.7	32.9	31.1	31.8	28.5	27.8	28.1
10	28.2	27.0	27.5	31.0	29.9	30.3	32.6	30.2	31.6	28.8	27.6	28.0
11	27.9	26.2	26.6	31.5	28.9	29.9	30.3	29.4	29.8	28.9	27.7	28.2
12	27.7	26.4	26.9	31.6	29.4	30.2	30.5	28.7	29.5	28.7	27.9	28.3
13	26.9	25.5	26.3	30.5	29.5	29.9	30.3	28.9	29.3	28.1	27.6	27.9
14	26.1	24.8	25.5	30.0	28.5	29.2	30.6	29.0	29.8	28.0	27.5	27.7
15	25.2	24.2	24.7	30.2	28.8	29.4	30.5	28.8	29.4	28.0	27.2	27.5
16	25.4	23.8	24.3	30.7	29.2	29.8	31.1	29.2	29.7	27.6	26.7	27.0
17	27.1	24.7	25.2	30.3	29.1	29.6	30.1	29.0	29.4	26.9	26.0	26.4
18	27.1	24.8	26.0	30.3	28.3	29.0	30.6	28.6	29.2	26.6	25.5	25.9
19	28.9	25.6	27.1	31.2	29.0	29.6	29.4	28.3	28.7	25.5	25.2	25.3
20	28.4	26.2	27.7	31.3	29.7	30.4	30.8	28.5	29.0	25.2	25.0	25.1
21	28.7	26.2	27.0	29.7	28.5	29.1	31.6	28.6	29.5	25.8	24.8	25.1
22	29.0	26.4	27.2	28.5	27.4	27.8	30.4	28.6	29.3	26.6	24.9	25.2
23	28.4	26.6	27.2	29.0	26.7	27.5	30.8	28.8	29.5	27.9	25.0	26.0
24	28.6	26.6	27.3	29.0	27.0	27.6	30.4	28.9	29.4	27.6	25.3	26.1
25	28.9	27.2	27.5	29.4	27.7	28.4	31.3	29.4	30.1	26.8	25.1	25.5
26	28.6	27.0	27.8	29.8	27.7	28.3	31.6	30.0	30.6	27.2	25.1	25.7
27	30.0	27.8	28.7	30.4	28.6	29.1	30.7	29.7	30.1	27.1	25.6	26.2
28	30.0	28.7	29.3	30.6	28.2	29.3	30.7	29.1	29.8	26.7	25.6	26.1
29	30.2	28.4	29.2	30.4	29.0	29.6	30.5	29.0	29.7	26.0	25.0	25.4
30	30.2	28.1	28.7	29.8	28.3	29.3	30.6	28.8	29.5	25.2	24.6	24.9
31	---	---	---	29.6	28.4	29.0	30.2	28.6	29.2	---	---	---
Month	30.2	23.2	26.7	31.6	26.7	29.0	32.9	28.3	29.8	30.0	24.6	27.0



02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—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
	October			November			December			January		
1	25.3	24.4	24.8	21.8	20.2	20.8	---	---	---	---	---	---
2	25.3	24.4	24.8	20.8	19.5	19.9	---	---	---	---	---	---
3	26.3	24.5	25.0	19.5	19.0	19.2	---	---	---	---	---	---
4	26.3	25.1	25.7	19.9	18.5	19.0	---	---	---	---	---	---
5	26.0	25.5	25.7	19.1	18.1	18.4	---	---	---	---	---	---
6	26.8	25.3	25.6	18.1	17.5	17.8	---	---	---	---	---	---
7	26.6	25.4	25.8	17.5	16.9	17.2	---	---	---	---	---	---
8	27.6	25.6	26.1	16.9	16.3	16.6	---	---	---	---	---	---
9	27.0	25.6	26.2	16.5	15.9	16.2	---	---	---	---	---	---
10	26.9	25.8	26.2	15.9	15.3	15.6	---	---	---	---	---	---
11	26.2	24.8	25.4	15.8	14.9	15.2	---	---	---	---	---	---
12	25.0	24.1	24.5	15.3	14.6	14.9	---	---	---	---	---	---
13	24.6	23.6	24.0	---	---	---	---	---	---	---	---	---
14	24.3	23.2	23.5	---	---	---	---	---	---	---	---	---
15	23.8	22.9	23.2	---	---	---	---	---	---	---	---	---
16	23.7	22.6	22.9	---	---	---	---	---	---	---	---	---
17	23.4	22.6	22.8	---	---	---	---	---	---	---	---	---
18	23.6	22.6	23.0	---	---	---	---	---	---	---	---	---
19	23.9	23.1	23.4	---	---	---	---	---	---	---	---	---
20	24.0	23.1	23.5	---	---	---	---	---	---	---	---	---
21	23.8	22.6	23.0	---	---	---	---	---	---	---	---	---
22	23.2	22.5	22.8	---	---	---	---	---	---	---	---	---
23	23.7	22.6	22.9	---	---	---	---	---	---	---	---	---
24	24.1	22.8	23.6	---	---	---	---	---	---	---	---	---
25	23.9	23.1	23.5	---	---	---	---	---	---	---	---	---
26	23.2	23.0	23.1	---	---	---	---	---	---	---	---	---
27	23.2	22.9	23.0	---	---	---	---	---	---	---	---	---
28	22.9	22.0	22.5	---	---	---	---	---	---	---	---	---
29	22.1	21.3	21.7	---	---	---	---	---	---	---	---	---
30	21.5	20.7	21.1	---	---	---	---	---	---	---	---	---
31	21.1	20.4	20.6	---	---	---	---	---	---	---	---	---
Month	27.6	20.4	23.9	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—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	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—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
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Month</b>	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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	---	---	---	---	---	---	---	---	---	---	---	---

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	8.4	7.3	7.9	5.9	4.8	5.4
2	---	---	---	---	---	---	8.9	6.8	7.9	7.2	4.7	5.4
3	---	---	---	---	---	---	9.2	7.3	8.0	6.9	5.0	6.2
4	---	---	---	---	---	---	8.8	7.5	8.1	6.2	5.2	5.5
5	---	---	---	---	---	---	8.0	7.1	7.4	5.6	4.7	5.1
6	---	---	---	---	---	---	7.9	7.0	7.3	6.2	5.0	5.6
7	---	---	---	---	---	---	7.7	7.0	7.2	5.0	3.7	4.2
8	---	---	---	---	---	---	8.0	6.9	7.3	5.5	4.1	4.6
9	---	---	---	---	---	---	8.2	7.2	7.6	5.4	4.6	4.9
10	---	---	---	---	---	---	---	---	---	5.7	4.5	5.0
11	---	---	---	---	---	---	7.8	7.0	7.3	5.7	4.4	5.0
12	---	---	---	---	---	---	8.0	7.0	7.4	5.8	4.3	5.0
13	---	---	---	---	---	---	8.0	7.4	7.6	5.8	4.2	5.3
14	---	---	---	---	---	---	8.5	7.5	7.9	5.4	4.1	4.6
15	---	---	---	---	---	---	8.4	7.5	8.0	5.3	3.7	4.8
16	---	---	---	---	---	---	7.6	6.5	6.8	5.7	4.3	5.0
17	---	---	---	---	---	---	6.8	5.9	6.3	6.4	4.7	5.7
18	---	---	---	---	---	---	6.5	5.8	6.1	5.4	4.5	4.9
19	---	---	---	---	---	---	7.0	6.5	6.7	5.1	4.2	4.6
20	---	---	---	---	---	---	6.8	6.2	6.6	5.3	4.2	4.7
21	---	---	---	---	---	---	6.5	5.5	6.0	6.4	4.0	4.8
22	---	---	---	---	---	---	5.9	5.3	5.6	5.8	4.1	4.8
23	---	---	---	---	---	---	6.3	5.2	5.6	6.1	4.6	5.3
24	---	---	---	---	---	---	7.2	5.8	6.4	6.8	5.1	5.9
25	---	---	---	---	---	---	7.8	5.5	6.3	7.6	5.5	6.2
26	---	---	---	---	---	---	7.8	6.1	7.0	7.8	5.2	6.5
27	---	---	---	---	---	---	7.3	5.9	6.5	7.8	5.7	6.6
28	---	---	---	8.5	6.9	7.4	7.4	5.7	6.6	7.4	5.7	6.5
29	---	---	---	8.0	7.1	7.6	7.1	5.5	6.5	7.5	5.2	6.5
30	---	---	---	8.3	7.1	7.5	5.7	4.9	5.3	6.8	5.3	6.3
31	---	---	---	8.6	6.9	7.7	---	---	---	6.9	5.0	5.9
Month	---	---	---	---	---	---	---	---	---	7.8	3.7	5.4

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	6.9	5.1	5.9	9.9	6.5	8.4	9.3	5.4	7.4	5.9	1.8	4.0
2	7.9	5.4	6.5	9.3	6.0	7.9	8.6	5.5	6.6	5.2	1.7	3.0
3	7.0	4.0	5.5	8.9	5.6	6.8	8.5	5.6	6.6	6.0	2.0	3.7
4	5.0	3.1	3.9	8.5	6.0	7.3	7.5	5.6	6.3	7.6	2.6	4.5
5	6.4	4.1	5.4	9.1	5.5	7.4	6.3	4.6	5.4	8.7	5.0	6.2
6	6.5	4.7	5.6	8.5	5.8	7.6	5.0	1.9	3.7	9.0	5.3	7.1
7	7.3	4.5	5.3	7.9	4.9	6.4	6.7	3.5	4.7	7.3	4.4	5.9
8	6.8	4.9	6.0	8.0	5.4	6.4	7.4	4.2	5.5	6.4	3.2	4.8
9	8.0	4.7	6.4	8.4	6.3	7.1	7.1	4.2	5.5	5.3	3.0	4.5
10	6.6	4.7	5.7	8.0	6.1	7.0	---	---	---	5.4	2.4	3.4
11	6.7	4.9	5.4	8.5	3.6	7.0	---	---	---	6.4	1.6	4.4
12	6.4	4.5	5.6	8.0	5.4	6.9	---	---	---	6.4	3.1	4.9
13	6.3	3.8	5.4	8.2	6.5	7.3	---	---	---	5.2	2.8	3.8
14	5.8	4.5	5.0	8.2	4.4	6.7	---	---	---	5.2	3.0	3.9
15	5.6	3.6	4.5	9.1	5.2	7.2	---	---	---	5.5	2.8	4.1
16	6.0	3.6	4.8	9.1	5.5	7.2	---	---	---	6.2	3.0	4.2
17	8.2	5.5	6.8	8.8	4.5	7.2	---	---	---	6.2	3.2	4.1
18	8.7	4.5	7.1	8.1	4.0	5.7	---	---	---	6.5	3.0	4.3
19	9.4	5.3	7.4	9.3	5.0	7.0	---	---	---	5.6	3.1	3.9
20	8.2	5.4	7.4	9.3	6.1	7.9	---	---	---	5.5	3.3	4.0
21	7.5	5.8	6.5	8.0	4.8	6.5	---	---	---	6.6	3.5	4.4
22	7.9	5.3	6.3	6.5	4.2	5.3	---	---	---	7.0	3.2	4.6
23	8.2	5.1	6.4	6.4	3.0	4.4	---	---	---	8.1	3.1	5.9
24	8.2	5.5	6.6	8.8	4.5	5.9	8.5	4.7	6.2	8.9	4.8	6.8
25	8.3	5.4	6.4	9.2	5.3	7.2	9.1	5.5	7.5	8.2	5.2	6.9
26	8.2	5.0	6.9	10.1	6.1	7.5	8.8	5.9	7.3	8.2	4.5	6.8
27	9.7	5.8	7.9	10.2	6.4	7.9	8.5	5.1	6.6	8.4	5.0	7.0
28	10.2	7.0	8.3	9.6	4.9	7.5	7.6	3.4	6.0	7.9	5.3	6.6
29	9.8	5.6	8.3	8.9	6.1	7.3	7.1	4.1	5.8	5.8	2.5	4.3
30	9.6	5.4	7.9	7.6	5.6	6.5	6.8	3.1	5.3	5.0	2.5	3.9
31	---	---	---	6.9	4.9	5.8	6.9	1.6	4.0	---	---	---
Month	10.2	3.1	6.2	10.2	3.0	6.9	---	---	---	9.0	1.6	4.9

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
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	5.7	2.8	4.3	4.9	2.8	3.8	---	---	---	---	---	---
2	6.1	3.9	4.9	4.6	3.3	3.9	---	---	---	---	---	---
3	6.8	3.9	5.1	4.4	3.4	3.8	---	---	---	---	---	---
4	8.3	5.0	6.9	5.7	3.6	4.2	---	---	---	---	---	---
5	7.8	5.7	7.1	5.2	4.1	4.6	---	---	---	---	---	---
6	8.1	5.0	6.5	4.8	4.2	4.5	---	---	---	---	---	---
7	7.3	5.2	6.5	5.2	4.3	4.6	---	---	---	---	---	---
8	8.5	4.4	6.6	5.2	4.3	4.6	---	---	---	---	---	---
9	8.0	3.9	6.4	5.3	4.4	4.7	---	---	---	---	---	---
10	---	---	---	5.0	4.7	4.8	---	---	---	---	---	---
11	---	---	---	5.9	4.7	5.1	---	---	---	---	---	---
12	---	---	---	5.9	4.9	5.2	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	7.3	5.3	6.1	---	---	---	---	---	---	---	---	---
21	7.7	3.0	5.0	---	---	---	---	---	---	---	---	---
22	8.2	3.2	5.3	---	---	---	---	---	---	---	---	---
23	7.8	4.2	5.6	---	---	---	---	---	---	---	---	---
24	8.5	4.6	6.8	---	---	---	---	---	---	---	---	---
25	7.4	4.3	6.3	---	---	---	---	---	---	---	---	---
26	5.3	3.7	4.7	---	---	---	---	---	---	---	---	---
27	5.2	3.5	4.3	---	---	---	---	---	---	---	---	---
28	4.0	3.1	3.4	---	---	---	---	---	---	---	---	---
29	4.8	2.9	3.6	---	---	---	---	---	---	---	---	---
30	5.4	3.1	3.7	---	---	---	---	---	---	---	---	---
31	4.5	2.5	3.3	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
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	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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25	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---



02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
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22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
1	---	---	---	---	---	---	92	76	84	68	54	62
2	---	---	---	---	---	---	100	71	86	87	54	62
3	---	---	---	---	---	---	---	---	---	81	58	72
4	---	---	---	---	---	---	101	82	90	69	58	61
5	---	---	---	---	---	---	89	76	80	63	52	57
6	---	---	---	---	---	---	84	72	77	68	53	61
7	---	---	---	---	---	---	81	70	74	53	38	44
8	---	---	---	---	---	---	82	68	73	58	42	48
9	---	---	---	---	---	---	83	71	76	59	48	52
10	---	---	---	---	---	---	---	---	---	64	48	55
11	---	---	---	---	---	---	79	68	72	65	49	55
12	---	---	---	---	---	---	83	69	74	67	48	57
13	---	---	---	---	---	---	83	74	77	66	47	60
14	---	---	---	---	---	---	87	75	79	62	45	51
15	---	---	---	---	---	---	86	76	81	60	40	54
16	---	---	---	---	---	---	77	64	68	66	48	57
17	---	---	---	---	---	---	68	59	62	75	54	66
18	---	---	---	---	---	---	63	57	60	62	50	55
19	---	---	---	---	---	---	70	63	65	58	46	52
20	---	---	---	---	---	---	70	60	65	61	46	52
21	---	---	---	---	---	---	65	54	60	77	45	55
22	---	---	---	---	---	---	60	52	56	67	46	54
23	---	---	---	---	---	---	67	53	58	72	52	61
24	---	---	---	---	---	---	77	60	68	81	58	68
25	---	---	---	---	---	---	87	58	68	92	64	73
26	---	---	---	---	---	---	90	66	79	95	61	78
27	---	---	---	---	---	---	82	66	73	95	68	80
28	---	---	---	95	73	79	86	64	75	92	71	80
29	---	---	---	85	74	80	83	62	74	97	64	81
30	---	---	---	87	72	78	67	55	60	86	65	78
31	---	---	---	93	71	80	---	---	---	86	61	73
<b>Month</b>	---	---	---	---	---	---	---	---	---	97	38	62

## 02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	87	62	73	131	84	110	124	70	97	78	23	52
2	100	67	81	121	76	102	114	71	86	68	22	38
3	87	47	67	115	71	87	113	73	87	79	26	47
4	60	36	46	111	76	93	100	73	83	100	33	59
5	80	49	66	117	70	95	85	60	72	114	64	81
6	82	58	69	110	74	99	67	25	49	119	68	92
7	94	55	66	104	63	83	90	46	64	96	56	77
8	86	61	75	106	70	84	101	57	74	83	41	62
9	107	59	82	113	82	94	98	57	75	69	38	57
10	85	59	73	107	81	94	---	---	---	70	31	43
11	86	61	68	114	47	93	---	---	---	83	20	57
12	82	56	70	109	71	91	---	---	---	83	40	63
13	79	47	67	109	86	97	---	---	---	67	36	49
14	71	55	61	109	57	87	---	---	---	67	38	50
15	68	43	55	120	68	95	---	---	---	71	35	52
16	73	43	57	121	72	96	---	---	---	79	38	53
17	102	67	83	116	59	94	---	---	---	78	40	51
18	108	54	88	108	52	74	---	---	---	81	37	53
19	122	66	94	125	65	92	---	---	---	69	38	47
20	106	68	94	126	81	106	---	---	---	67	40	49
21	97	72	82	106	62	85	---	---	---	81	42	54
22	103	66	80	84	53	68	---	---	---	88	39	56
23	106	64	81	84	38	56	---	---	---	104	38	74
24	106	69	84	113	57	75	113	61	82	113	59	85
25	108	68	82	121	68	93	122	72	99	102	63	85
26	105	63	88	133	78	97	118	78	98	104	55	84
27	127	74	102	135	83	103	113	68	88	106	61	87
28	134	91	109	128	64	99	102	45	79	98	65	82
29	129	72	108	119	80	96	95	54	77	72	30	53
30	127	69	103	100	73	85	91	40	70	61	30	47
31	---	---	---	89	64	75	92	21	53	---	---	---
Month	134	36	78	135	38	90	---	---	---	119	20	61

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
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	70	34	53	56	31	43	---	---	---	---	---	---
2	74	47	59	51	36	43	---	---	---	---	---	---
3	85	47	62	48	37	41	---	---	---	---	---	---
4	103	61	85	63	39	45	---	---	---	---	---	---
5	96	70	88	56	44	49	---	---	---	---	---	---
6	102	61	80	51	44	48	---	---	---	---	---	---
7	91	64	81	54	45	48	---	---	---	---	---	---
8	107	54	82	54	44	47	---	---	---	---	---	---
9	100	48	80	54	45	48	---	---	---	---	---	---
10	---	---	---	50	47	48	---	---	---	---	---	---
11	---	---	---	60	47	51	---	---	---	---	---	---
12	---	---	---	59	49	52	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
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18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	87	62	72	---	---	---	---	---	---	---	---	---
21	91	35	59	---	---	---	---	---	---	---	---	---
22	96	37	61	---	---	---	---	---	---	---	---	---
23	92	49	65	---	---	---	---	---	---	---	---	---
24	102	54	81	---	---	---	---	---	---	---	---	---
25	88	50	74	---	---	---	---	---	---	---	---	---
26	62	43	55	---	---	---	---	---	---	---	---	---
27	61	41	51	---	---	---	---	---	---	---	---	---
28	46	36	40	---	---	---	---	---	---	---	---	---
29	55	33	41	---	---	---	---	---	---	---	---	---
30	61	35	42	---	---	---	---	---	---	---	---	---
31	51	28	37	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
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	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
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19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02081133 CASHIE RIVER ABOVE SANS SOUCI FERRY NEAR SANS SOUCI, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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