

Water-Data Report 2008

02124692 GOOSE CREEK AT FAIRVIEW, NC

Upper Pee Dee Basin
Rocky Subbasin

LOCATION.--Lat 35°09'13", long 80°32'07" referenced to North American Datum of 1983, Union County, NC, Hydrologic Unit 03040105, on right bank at downstream side of culvert on U.S. Highway 601, 2.0 mi above Duck Creek and 1.0 mi north of Fairview.

DRAINAGE AREA.--24.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1999 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m). WDR NC-03-1B: 2000(M), 2001(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 472.67 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum peak stage for period of record from crest-stage gage. Minimum discharge for current water year and period of record affected by regulation of unknown origin. No flow also occurred Aug. 12-16, 2002, August 22-27, September 6-15, 2007, October 2, 3, 6-25, 2007.

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	0.44	0.41	9.7	144	6.3	5.9	14	1.5	0.46	0.69	20
2	0.00	0.23	0.46	4.8	38	5.3	5.6	8.6	1.4	0.28	0.92	2.6
3	0.06	0.14	0.73	2.9	13	4.7	4.5	6.1	1.1	0.35	0.46	1.00
4	0.02	0.16	0.69	2.2	9.1	26	15	5.2	0.76	0.27	0.60	0.62
5	0.04	0.14	e0.41	2.0	8.4	124	164	4.2	1.0	0.19	0.49	0.52
6	0.01	0.38	1.3	1.8	8.3	20	52	3.4	0.91	18	0.44	4.7
7	0.00	0.62	e0.42	1.7	5.7	84	19	2.6	0.60	3.5	0.28	2.3
8	0.00	0.60	e0.39	1.7	4.7	125	13	2.8	0.41	2.7	0.66	0.82
9	0.00	0.74	0.43	1.9	4.2	38	9.4	3.1	0.48	29	0.99	0.81
10	0.00	0.84	0.81	1.8	3.7	20	7.2	2.4	0.20	3.4	0.30	0.52
11	0.00	1.5	0.64	1.7	3.0	16	5.8	3.1	6.5	2.4	0.24	1.1
12	0.00	0.61	0.58	2.2	3.0	13	5.6	3.4	8.2	2.3	0.26	1.3
13	0.00	0.77	1.1	1.9	11	10	6.0	2.3	2.8	1.1	0.26	0.78
14	0.00	0.31	1.2	1.6	18	8.7	4.6	1.8	1.2	6.4	2.5	0.77
15	0.00	0.57	1.7	1.4	8.8	59	4.0	1.9	0.89	3.9	1.0	0.61
16	0.00	0.84	26	1.3	6.2	108	3.5	2.1	0.70	1.4	0.96	0.81
17	0.00	1.6	4.9	31	4.9	23	3.2	2.9	0.56	0.82	1.3	3.4
18	0.00	0.84	2.1	31	70	14	3.1	1.9	0.50	0.52	3.3	1.6
19	0.00	0.96	1.1	12	19	13	3.0	1.8	0.19	0.47	0.73	0.72
20	0.00	0.89	1.0	17	9.2	39	3.0	1.9	0.21	0.38	0.52	0.58
21	0.00	0.64	1.2	8.2	6.4	14	2.9	1.6	0.21	0.31	0.61	0.60
22	0.00	3.2	1.8	5.6	30	9.1	2.4	1.8	0.92	0.23	0.33	0.42
23	0.00	6.6	1.7	6.7	21	7.0	2.0	1.5	0.76	73	0.37	0.60
24	0.00	2.2	1.7	5.8	11	5.6	1.8	1.3	1.5	161	0.36	0.54
25	0.01	0.76	1.9	4.2	8.3	4.8	1.7	1.5	0.81	9.4	2.3	0.42
26	22	0.51	28	2.9	21	4.3	2.2	1.4	0.50	6.1	26	2.3
27	8.8	0.32	13	2.7	21	4.0	12	1.3	0.22	5.3	316	17
28	1.5	0.28	3.3	2.4	10	3.9	286	4.2	1.7	4.6	13	5.7
29	0.44	0.19	23	2.7	7.5	3.5	92	12	1.4	3.5	6.6	1.7
30	0.53	0.31	140	3.1	---	3.2	23	3.0	1.00	1.0	5.3	0.50
31	0.36	---	45	4.0	---	4.0	---	1.6	---	0.80	10	---
Total	33.78	28.19	306.97	179.9	528.4	820.4	763.4	106.7	39.13	343.08	397.77	75.34
Mean	1.09	0.94	9.90	5.80	18.2	26.5	25.4	3.44	1.30	11.1	12.8	2.51
Max	22	6.6	140	31	144	125	286	14	8.2	161	316	20
Min	0.00	0.14	0.39	1.3	3.0	3.2	1.7	1.3	0.19	0.19	0.24	0.42
Cfsm	0.05	0.04	0.41	0.24	0.76	1.10	1.06	0.14	0.05	0.46	0.53	0.10
In.	0.05	0.04	0.48	0.28	0.82	1.27	1.18	0.17	0.06	0.53	0.62	0.12

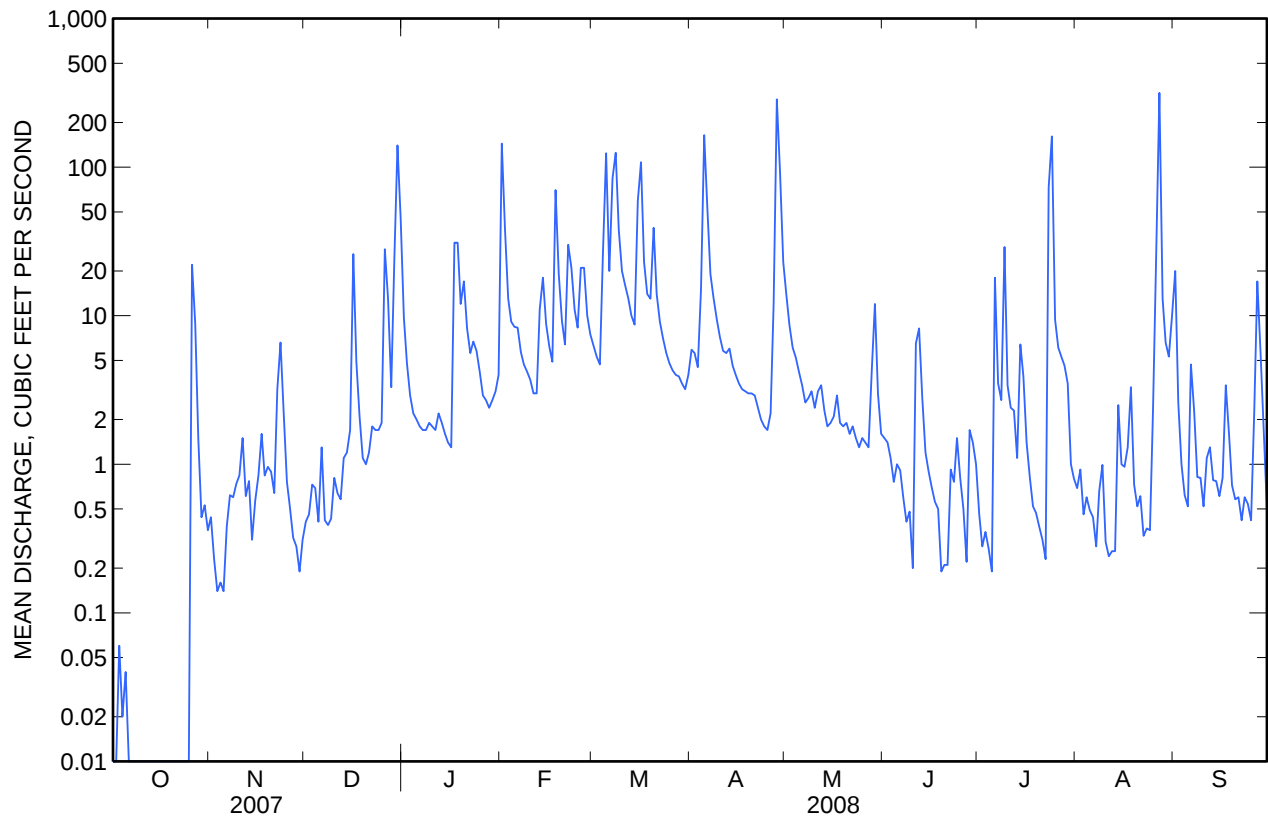
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.50	18.3	20.1	17.9	27.1	37.5	25.6	9.23	16.9	10.5	8.73	13.1
Max	12.4	105	59.1	36.9	60.4	111	133	59.2	55.4	57.8	31.0	87.7
(WY)	(2007)	(2007)	(2003)	(2007)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	0.70	0.91	2.99	3.74	7.02	6.38	4.64	1.72	0.75	1.49	0.31	0.07
(WY)	(2001)	(2002)	(2001)	(2004)	(2001)	(2006)	(2006)	(2007)	(2002)	(2001)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2000 - 2008	
Annual total	4,695.97		3,623.06			
Annual mean	12.9		9.90		18.2	
Highest annual mean					52.4	2003
Lowest annual mean					6.25	2001
Highest daily mean	1,260	Mar 2	316	Aug 27	2,000	Nov 22, 2006
Lowest daily mean	0.00	Aug 22	0.00	Oct 2	0.00	Aug 12, 2002
Annual seven-day minimum	0.00	Sep 8	0.00	Oct 7	0.00	Sep 8, 2007
Maximum peak flow			1,090	Aug 27	3,090	Sep 28, 2004
Maximum peak stage			6.91	Aug 27	^a 10.40	Sep 28, 2004
Instantaneous low flow			^a 0.00	Oct 1	^a 0.00	Aug 11, 2002
Annual runoff (cfs)	0.536		0.412		0.756	
Annual runoff (inches)	7.28		5.62		10.28	
10 percent exceeds	19		20		29	
50 percent exceeds	1.5		1.8		3.5	
90 percent exceeds	0.01		0.23		0.47	

^aSee Remarks.

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1999 to current year.

pH: November 1999 to current year.

WATER TEMPERATURE: November 1999 to current year.

DISSOLVED OXYGEN: November 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: November 1999 to current year.

TURBIDITY: July 2006 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 1999 to current year, optical backscatterance sensor from April 2000 to July 2006. Turbidity is collected using a Hydrolab Datasonde 4a.

REMARKS.--Station operated in cooperation with North Carolina Department of Transportation to characterize water-quality and suspended sediment concentrations in the Goose Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 747 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 500 microsiemens, April 28, 2008; minimum recorded, 38 microsiemens, April 10, 2003.

pH: Maximum recorded, 9.1 standard units, March 24, 2004, March 21, 2007; minimum recorded, 0.4 standard units, February 8, 2005.

WATER TEMPERATURE: Maximum recorded, 29.1°C, August 9, 2007; minimum recorded, 0.0°C, January 24, 25, 2003.

DISSOLVED OXYGEN: Maximum recorded, 15.2 mg/L, January 22, 2008; minimum recorded, 1.7 mg/L, April 27, 2008.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 143%, March 21, 2007; minimum recorded, 18%, April 27, 2008.

TURBIDITY: Maximum recorded, 1,820 FNU, July 23, 2006; minimum recorded, 0.0 FNU, on many days during the period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 500 microsiemens, April 28; minimum recorded, 44 microsiemens, July 24.

pH: Maximum recorded, 8.5 standard units, March 28; minimum recorded, 5.9 standard units, July 24.

WATER TEMPERATURE: Maximum recorded, 27.5°C, June 9, 10; minimum recorded, 0.8°C, January 5.

DISSOLVED OXYGEN: Maximum recorded, 15.2 mg/L, January 22; minimum recorded, 1.7 mg/L, April 27.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 126%, February 21; minimum recorded, 18%, April 27.

TURBIDITY: Maximum recorded, 1,250 FNU, July 24; minimum recorded, 0.0 FNU, on several days during the year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Time	Instan- taneous dis- charge, cfs (00061)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
Apr				
28...	1410	542	1,130	1,650
28...	1425	555	973	1,460
28...	1515	560	709	1,070

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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	---	---	---	177	167	172	318	293	306	156	139	148
2	---	---	---	180	177	179	293	270	282	162	156	160
3	---	---	---	182	180	180	270	224	247	165	162	164
4	292	289	291	182	179	180	225	223	224	164	160	161
5	290	288	289	186	182	184	---	---	---	180	164	174
6	---	---	---	190	185	189	219	208	214	183	180	181
7	---	---	---	192	190	191	---	---	---	191	183	188
8	---	---	---	195	192	193	---	---	---	197	191	193
9	---	---	---	200	195	197	242	217	225	207	197	201
10	---	---	---	205	200	202	272	242	257	220	207	214
11	---	---	---	208	205	207	280	270	274	223	218	221
12	---	---	---	207	206	206	287	280	283	223	219	221
13	---	---	---	208	204	205	293	287	289	221	211	217
14	---	---	---	208	206	207	297	179	293	211	207	208
15	---	---	---	212	205	208	298	178	280	210	207	208
16	---	---	---	213	212	212	296	105	190	212	209	211
17	---	---	---	234	211	218	124	107	112	211	130	189
18	---	---	---	264	234	248	122	115	117	160	126	147
19	---	---	---	290	264	277	126	118	121	181	154	163
20	---	---	---	310	290	301	138	126	130	191	180	185
21	---	---	---	315	309	313	148	137	142	186	175	178
22	---	---	---	349	314	326	169	148	158	196	178	187
23	---	---	---	363	347	357	184	169	174	212	195	204
24	---	---	---	347	335	337	208	184	191	214	204	210
25	---	---	---	341	337	339	233	208	223	213	204	208
26	407	128	216	342	339	341	234	112	185	206	203	205
27	141	120	131	342	334	338	120	110	113	212	204	208
28	151	141	146	335	333	334	130	120	125	212	208	210
29	156	150	153	333	329	331	166	102	127	222	210	215
30	161	156	158	329	318	324	135	87	105	229	220	224
31	167	161	164	---	---	---	139	110	128	233	225	230
Month	---	---	---	363	167	250	---	---	---	233	126	195

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	178	170	172	202	187	194	148	134	145
2	---	---	---	181	177	178	204	194	198	157	145	150
3	---	---	---	187	181	185	195	182	190	160	155	157
4	---	---	---	201	139	186	198	121	186	171	150	166
5	---	---	---	139	104	115	224	121	144	178	171	175
6	192	186	189	146	127	137	147	140	144	188	176	183
7	187	182	184	183	117	144	151	142	147	188	185	187
8	188	183	186	139	111	120	160	151	155	194	188	192
9	192	183	187	140	120	131	164	159	161	194	190	192
10	196	192	194	154	140	147	168	162	164	197	193	194
11	201	192	197	163	154	158	169	164	167	197	191	195
12	201	189	194	204	162	165	175	168	170	202	193	196
13	210	188	200	172	166	168	176	172	174	198	195	196
14	203	166	176	177	168	172	176	171	174	200	193	197
15	166	163	165	177	103	166	179	174	177	208	198	205
16	171	163	168	122	99	112	184	172	179	205	203	204
17	176	171	174	143	122	135	187	180	183	208	201	205
18	188	122	146	157	143	150	189	165	185	215	207	211
19	152	133	143	169	157	161	194	184	189	218	214	216
20	165	151	158	185	134	149	193	170	191	218	210	215
21	173	165	169	146	134	141	194	187	191	210	203	205
22	190	151	175	156	145	152	196	186	194	209	203	204
23	159	149	154	164	156	161	204	194	200	216	209	212
24	166	159	163	172	161	166	205	200	203	220	208	217
25	180	166	174	176	166	170	205	199	203	219	217	218
26	193	174	180	178	171	175	433	185	207	220	218	218
27	180	145	153	185	176	181	484	257	385	219	217	218
28	157	149	154	185	178	182	500	115	272	249	198	213
29	170	157	164	188	180	185	148	128	139	259	130	175
30	---	---	---	189	184	186	147	140	145	130	125	126
31	---	---	---	189	184	186	---	---	---	138	127	132
Month	---	---	---	204	99	159	500	115	187	259	125	191

02124692 GOOSE CREEK AT FAIRVIEW, 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	144	138	141	283	274	280	126	123	124	175	146	153
2	149	144	145	284	280	282	131	126	128	157	148	151
3	160	148	153	280	256	270	133	131	132	176	157	166
4	170	160	164	256	234	242	138	132	134	184	175	180
5	183	169	175	234	206	227	143	138	139	178	172	176
6	192	183	186	237	76	133	151	143	146	217	162	180
7	199	192	195	94	80	87	155	151	153	204	195	200
8	205	199	201	105	88	97	167	152	157	204	188	200
9	212	205	209	129	79	94	183	167	177	189	169	180
10	214	209	211	105	97	102	188	182	184	169	164	166
11	328	171	218	118	105	114	191	186	188	179	164	171
12	351	191	261	129	114	121	191	187	189	188	179	182
13	264	191	233	140	129	135	193	172	184	200	188	191
14	278	264	271	180	140	148	229	181	205	214	200	207
15	279	269	276	192	136	162	237	229	235	221	214	217
16	269	251	259	136	125	129	252	228	232	222	211	218
17	251	235	242	126	125	125	284	252	273	232	196	212
18	235	228	232	125	122	124	277	170	192	244	228	234
19	228	219	223	130	125	127	192	187	190	255	244	248
20	221	216	218	135	130	131	190	178	184	259	255	258
21	217	210	214	140	135	137	178	173	175	258	239	252
22	221	182	207	145	140	142	176	171	173	239	216	230
23	196	187	193	174	57	81	178	174	176	216	203	210
24	224	190	202	81	44	66	178	168	175	204	194	199
25	243	224	232	92	81	88	178	122	162	194	190	191
26	262	243	254	100	92	97	222	100	137	191	180	186
27	269	258	265	109	98	105	104	72	89	290	158	224
28	285	262	272	120	104	113	125	102	114	160	146	152
29	270	255	265	121	110	116	123	118	121	171	160	166
30	274	251	257	128	121	124	125	113	121	176	170	174
31	---	---	---	128	123	126	151	108	115	---	---	---
Month	351	138	219	284	44	140	284	72	165	290	146	196

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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	---	---	---	7.2	7.1	7.2	7.4	7.3	7.4	7.1	7.0	7.0
2	---	---	---	7.3	7.2	7.2	7.5	7.3	7.4	7.2	7.1	7.2
3	---	---	---	7.3	7.2	7.2	7.6	7.4	7.4	7.2	7.2	7.2
4	7.6	7.5	7.5	7.3	7.2	7.2	7.6	7.4	7.4	7.2	7.2	7.2
5	7.5	7.4	7.4	7.2	7.2	7.2	---	---	---	7.3	7.2	7.2
6	---	---	---	7.2	7.2	7.2	7.5	7.4	7.4	7.3	7.2	7.2
7	---	---	---	7.2	7.2	7.2	---	---	---	7.2	7.2	7.2
8	---	---	---	7.3	7.2	7.2	---	---	---	7.2	7.2	7.2
9	---	---	---	7.2	7.2	7.2	7.4	7.3	7.4	7.3	7.2	7.2
10	---	---	---	7.2	7.2	7.2	7.4	7.3	7.3	7.3	7.2	7.2
11	---	---	---	7.2	7.2	7.2	7.5	7.3	7.3	7.4	7.2	7.2
12	---	---	---	7.2	7.2	7.2	7.6	7.3	7.3	7.3	7.2	7.2
13	---	---	---	7.2	7.1	7.2	7.6	7.3	7.3	7.4	7.2	7.3
14	---	---	---	7.2	7.1	7.1	7.7	7.3	7.4	7.5	7.3	7.3
15	---	---	---	7.2	7.1	7.1	7.4	7.3	7.4	7.6	7.3	7.4
16	---	---	---	7.2	7.0	7.2	7.5	7.2	7.3	7.7	7.4	7.4
17	---	---	---	7.2	7.1	7.1	7.2	7.2	7.2	7.4	7.1	7.4
18	---	---	---	7.2	7.1	7.2	7.3	7.2	7.2	7.1	7.0	7.0
19	---	---	---	7.2	7.1	7.2	7.3	7.2	7.2	7.1	7.0	7.1
20	---	---	---	7.3	7.0	7.2	7.2	7.2	7.2	7.2	7.1	7.2
21	---	---	---	7.2	7.0	7.1	7.2	7.2	7.2	7.3	7.2	7.3
22	---	---	---	7.0	6.8	7.0	7.2	7.2	7.2	7.3	7.2	7.2
23	---	---	---	7.3	6.9	7.1	7.3	7.2	7.2	7.3	7.2	7.2
24	---	---	---	7.4	7.3	7.4	7.3	7.2	7.2	7.5	7.2	7.3
25	---	---	---	7.4	7.3	7.3	7.4	7.2	7.3	7.5	7.3	7.4
26	7.4	7.0	7.2	7.3	7.2	7.3	7.4	7.1	7.3	7.5	7.3	7.4
27	7.0	7.0	7.0	7.4	7.2	7.3	7.1	7.1	7.1	7.5	7.3	7.4
28	7.1	7.0	7.1	7.5	7.3	7.4	7.1	7.0	7.1	7.5	7.3	7.4
29	7.2	7.1	7.2	7.4	7.3	7.3	7.2	6.9	7.1	7.6	7.3	7.4
30	7.2	7.2	7.2	7.4	7.3	7.3	7.0	6.8	7.0	7.7	7.3	7.4
31	7.2	7.1	7.2	---	---	---	7.0	6.9	7.0	7.9	7.3	7.6
Max	---	---	---	7.5	7.3	7.4	---	---	---	7.9	7.4	7.6
Min	---	---	---	7.0	6.8	7.0	---	---	---	7.1	7.0	7.0

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	8.0	7.5	7.6	7.7	7.2	7.3	7.2	7.1	7.2
2	---	---	---	8.2	7.5	7.6	7.8	7.1	7.3	7.1	7.0	7.1
3	---	---	---	8.4	7.5	7.7	7.3	7.2	7.2	7.1	7.0	7.1
4	---	---	---	8.1	7.3	7.6	7.5	7.0	7.2	7.1	7.0	7.1
5	---	---	---	7.3	7.2	7.3	7.0	6.7	6.8	7.1	7.0	7.0
6	7.4	7.2	7.2	7.5	7.3	7.3	7.0	6.9	7.0	7.1	7.0	7.0
7	7.5	7.2	7.3	7.4	7.2	7.3	7.1	7.0	7.0	7.1	7.0	7.0
8	7.6	7.2	7.4	7.3	7.2	7.3	7.1	7.0	7.0	7.0	7.0	7.0
9	7.6	7.3	7.4	7.5	7.3	7.5	7.2	7.0	7.0	7.1	7.0	7.0
10	7.8	7.3	7.5	7.6	7.4	7.5	7.2	7.0	7.0	7.1	7.0	7.0
11	7.8	7.4	7.5	7.6	7.4	7.5	7.2	7.0	7.1	7.1	7.0	7.1
12	7.8	7.4	7.5	7.8	7.4	7.5	7.1	7.0	7.0	7.2	7.1	7.1
13	7.6	7.3	7.4	7.8	7.6	7.6	7.3	7.0	7.1	7.2	7.2	7.2
14	7.4	7.3	7.3	7.9	7.5	7.7	7.3	7.1	7.2	7.3	7.2	7.2
15	7.6	7.3	7.4	7.9	7.3	7.6	7.3	7.1	7.2	7.3	7.2	7.2
16	7.8	7.2	7.4	7.5	7.2	7.4	7.4	7.1	7.2	7.2	7.1	7.2
17	8.0	7.2	7.4	7.6	7.4	7.5	7.4	7.1	7.2	7.2	7.1	7.2
18	7.3	7.0	7.0	7.6	7.5	7.6	7.4	7.1	7.2	7.3	7.2	7.2
19	7.3	7.0	7.2	7.6	7.0	7.2	7.3	7.1	7.2	7.3	7.2	7.2
20	7.4	7.1	7.2	7.2	7.0	7.1	7.4	7.1	7.2	7.3	7.2	7.2
21	7.7	7.2	7.4	7.3	7.0	7.1	7.4	7.1	7.2	7.3	7.2	7.2
22	7.5	7.4	7.4	7.4	7.0	7.1	7.3	7.1	7.2	7.3	7.2	7.2
23	7.5	7.3	7.4	7.6	7.1	7.2	7.2	7.1	7.2	7.4	7.2	7.3
24	7.5	7.3	7.4	7.6	7.2	7.3	7.5	7.1	7.3	7.4	7.2	7.3
25	7.8	7.3	7.5	7.8	7.2	7.4	7.5	7.3	7.4	7.4	7.2	7.3
26	7.5	7.3	7.4	8.1	7.2	7.4	7.4	7.1	7.3	7.4	7.2	7.3
27	7.6	7.3	7.4	8.3	7.2	7.5	7.2	7.0	7.1	7.5	7.2	7.3
28	7.8	7.4	7.6	8.5	7.2	7.4	7.2	6.8	7.0	7.3	7.1	7.3
29	7.9	7.5	7.6	7.8	7.2	7.4	7.1	6.9	7.1	7.3	7.1	7.2
30	---	---	---	7.5	7.2	7.3	7.2	7.1	7.2	7.1	7.0	7.0
31	---	---	---	7.5	7.2	7.3	---	---	---	7.1	7.0	7.0
Max	---	---	---	8.5	7.6	7.7	7.8	7.3	7.4	7.5	7.2	7.3
Min	---	---	---	7.2	7.0	7.1	7.0	6.7	6.8	7.0	7.0	7.0

02124692 GOOSE CREEK AT FAIRVIEW, 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	7.2	7.0	7.0	7.2	7.0	7.1	7.0	6.9	6.9	6.8	6.5	6.6
2	7.2	7.0	7.1	7.4	7.1	7.2	6.9	6.9	6.9	6.9	6.8	6.8
3	7.3	7.0	7.1	7.3	7.1	7.1	7.0	6.9	6.9	7.1	6.9	7.0
4	7.3	7.0	7.1	7.4	7.1	7.2	7.0	6.8	6.9	7.2	7.0	7.1
5	7.2	7.0	7.0	7.5	7.1	7.2	7.0	6.9	6.9	7.3	7.1	7.2
6	7.2	7.0	7.0	7.2	6.6	6.7	7.0	6.9	6.9	7.3	7.1	7.2
7	7.3	7.0	7.1	6.6	6.6	6.6	7.0	6.8	6.9	7.3	7.2	7.2
8	7.4	6.9	7.1	6.7	6.6	6.6	7.1	6.8	6.9	7.2	7.2	7.2
9	7.3	7.0	7.1	6.7	6.5	6.6	7.0	6.8	6.9	7.2	7.1	7.2
10	7.5	7.0	7.1	6.6	6.5	6.6	7.1	7.0	7.0	7.2	7.1	7.2
11	7.6	6.6	7.0	6.6	6.5	6.6	7.2	7.0	7.1	7.2	7.2	7.2
12	6.8	6.6	6.6	6.7	6.6	6.7	7.3	7.0	7.1	7.2	7.1	7.2
13	7.0	6.8	6.9	6.7	6.6	6.7	7.1	6.9	7.0	7.2	7.1	7.1
14	7.1	6.9	7.0	6.9	6.7	6.8	7.1	6.9	7.0	7.2	7.1	7.1
15	7.2	7.0	7.1	6.9	6.8	6.8	7.1	7.0	7.1	7.1	7.0	7.1
16	7.2	7.1	7.1	6.9	6.8	6.8	7.2	6.9	7.1	7.1	7.1	7.1
17	7.3	7.1	7.1	6.9	6.8	6.9	7.1	6.9	7.0	7.2	7.1	7.2
18	7.4	7.1	7.2	7.0	6.8	6.9	7.1	6.9	7.0	7.2	7.2	7.2
19	7.5	7.2	7.3	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.2	7.2
20	7.4	7.2	7.3	7.1	7.0	7.0	7.1	7.0	7.0	7.3	7.2	7.2
21	7.5	7.2	7.2	7.1	7.0	7.0	7.1	7.0	7.1	7.2	7.1	7.2
22	7.2	7.1	7.2	7.2	7.0	7.0	7.3	7.1	7.2	7.2	7.1	7.2
23	7.2	7.1	7.1	7.0	6.2	6.5	7.2	7.1	7.2	7.2	7.2	7.2
24	7.1	7.0	7.1	6.7	5.9	6.4	7.2	7.1	7.1	7.2	7.2	7.2
25	7.3	7.1	7.1	6.8	6.6	6.7	7.2	6.8	7.1	7.3	7.1	7.2
26	7.3	7.1	7.1	6.8	6.8	6.8	6.9	6.5	6.8	7.1	6.9	7.1
27	7.5	7.1	7.2	7.0	6.8	6.9	6.6	6.1	6.3	7.0	6.9	7.0
28	7.2	7.0	7.1	7.0	6.9	7.0	6.8	6.3	6.7	6.9	6.8	6.8
29	7.1	7.0	7.0	7.0	6.9	7.0	6.7	6.6	6.6	6.8	6.8	6.8
30	7.1	7.0	7.0	7.0	6.9	7.0	6.7	6.6	6.7	6.9	6.8	6.8
31	---	---	---	7.0	6.9	6.9	6.8	6.5	6.8	---	---	---
Max	7.6	7.2	7.3	7.5	7.1	7.2	7.3	7.1	7.2	7.3	7.2	7.2
Min	6.8	6.6	6.6	6.6	5.9	6.4	6.6	6.1	6.3	6.8	6.5	6.6

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	15.5	12.0	13.5	8.5	4.4	6.3	9.9	7.1	8.5
2	---	---	---	14.4	11.8	13.1	7.6	5.5	6.7	7.1	3.2	5.1
3	---	---	---	14.0	9.5	11.5	10.1	6.5	8.2	3.4	1.7	2.6
4	21.5	20.1	20.8	13.0	8.3	10.5	7.9	5.6	6.6	2.8	0.9	1.7
5	22.2	20.6	21.4	12.1	7.7	10.1	---	---	---	3.2	0.8	2.0
6	---	---	---	13.4	9.8	11.4	7.0	4.5	5.8	5.7	2.6	4.1
7	---	---	---	10.6	6.9	8.7	---	---	---	7.6	4.5	5.9
8	---	---	---	9.3	5.2	7.3	---	---	---	9.0	6.0	7.5
9	---	---	---	10.1	5.8	7.9	10.7	6.6	8.3	11.4	8.7	10.1
10	---	---	---	10.5	7.1	8.6	12.0	8.3	10.0	10.8	10.2	10.4
11	---	---	---	9.5	5.7	7.4	13.8	9.6	11.4	12.5	10.0	11.1
12	---	---	---	10.1	6.1	8.0	15.5	11.0	12.8	11.0	9.2	10.0
13	---	---	---	12.2	7.9	9.9	14.8	11.1	13.0	9.5	8.1	8.9
14	---	---	---	14.9	9.7	12.1	14.4	11.0	12.7	8.5	6.0	7.3
15	---	---	---	13.8	9.2	12.5	11.0	8.8	9.9	6.5	3.7	5.2
16	---	---	---	10.1	7.0	8.4	9.1	6.6	8.0	5.1	2.5	3.8
17	---	---	---	8.8	5.1	7.1	6.6	4.3	5.5	4.0	2.4	3.4
18	---	---	---	10.6	5.8	7.9	4.6	2.9	3.8	5.4	4.0	4.8
19	---	---	---	11.8	8.1	9.5	5.9	3.0	4.2	5.8	4.9	5.5
20	---	---	---	12.8	8.2	10.3	6.1	3.3	4.7	4.9	2.7	4.0
21	---	---	---	14.0	8.5	11.2	6.5	5.5	5.9	2.7	1.0	1.7
22	---	---	---	14.8	12.4	12.9	7.9	5.9	6.9	3.0	1.2	2.0
23	---	---	---	12.7	9.2	11.3	9.9	7.4	8.5	5.1	3.0	4.1
24	---	---	---	9.4	7.3	8.2	8.9	6.3	7.5	6.2	4.4	5.3
25	---	---	---	8.5	7.5	8.0	7.6	5.8	6.7	4.4	2.5	3.1
26	17.8	16.8	17.1	10.8	8.0	9.0	7.1	6.4	6.7	4.4	2.5	3.3
27	17.4	16.5	16.9	12.4	8.6	10.7	8.0	6.8	7.4	4.7	2.3	3.4
28	16.5	13.9	15.4	10.2	6.3	8.1	9.5	7.9	8.5	4.9	2.1	3.6
29	14.3	11.4	12.9	9.0	5.5	7.0	13.0	9.4	11.6	7.0	4.0	5.5
30	13.3	9.3	11.3	8.9	5.2	6.8	12.9	12.1	12.5	8.5	6.3	7.3
31	13.6	8.7	11.3	---	---	---	12.1	9.9	11.0	6.3	4.7	5.7
Month	---	---	---	15.5	5.1	9.6	---	---	---	12.5	0.8	5.4

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	10.0	6.8	8.5	14.3	10.5	12.2	16.3	13.4	14.9
2	---	---	---	10.4	7.7	9.2	16.8	14.1	15.3	18.5	15.9	17.1
3	---	---	---	11.2	8.2	9.8	15.7	12.1	14.0	18.7	17.4	18.2
4	---	---	---	14.4	10.7	12.6	14.8	11.0	12.0	19.3	17.5	18.5
5	---	---	---	14.3	11.6	12.8	15.4	14.1	14.6	19.4	17.9	18.6
6	13.1	10.5	11.7	12.6	10.2	11.6	16.1	14.8	15.3	19.5	17.5	18.5
7	12.9	10.4	11.8	12.0	10.9	11.4	15.4	13.7	14.3	19.6	16.9	18.3
8	10.4	8.7	9.7	12.5	10.2	11.9	15.5	13.3	14.3	19.9	18.3	19.1
9	9.9	7.7	8.8	10.2	7.5	9.0	16.4	12.9	14.8	21.0	19.1	20.0
10	10.0	7.7	8.7	10.5	7.3	9.0	18.2	14.2	16.3	21.6	19.4	20.4
11	8.6	6.6	7.6	11.3	8.8	10.1	19.4	16.3	17.9	20.1	17.9	18.8
12	7.4	6.0	6.8	12.5	9.6	11.2	19.1	17.6	18.5	18.1	16.7	17.3
13	8.5	7.0	7.7	13.1	10.0	11.8	17.8	15.6	16.7	17.5	15.3	16.4
14	8.2	6.5	7.3	13.8	11.6	12.9	15.6	12.7	13.7	16.9	14.8	15.9
15	7.5	5.8	6.8	13.9	12.6	13.3	14.4	11.5	12.9	17.5	16.1	16.7
16	9.2	6.6	8.0	14.3	11.8	13.0	14.6	11.0	12.8	19.4	17.2	18.2
17	10.4	8.3	9.2	13.4	10.6	11.8	16.0	11.8	13.9	18.9	16.7	17.8
18	13.8	10.4	12.5	11.5	9.9	10.6	17.3	13.6	15.4	18.6	16.7	17.5
19	12.3	8.9	10.1	14.8	11.3	12.9	17.2	15.1	16.2	18.9	16.5	17.6
20	9.2	7.2	8.4	14.7	13.0	14.0	17.8	15.3	16.4	19.3	17.4	18.1
21	9.0	7.1	8.0	13.4	10.7	12.3	17.1	14.8	15.8	19.5	16.9	18.1
22	7.1	5.7	6.3	15.0	11.6	13.3	16.5	14.7	15.6	19.3	16.4	17.8
23	9.8	6.9	8.2	14.6	12.3	13.6	17.1	15.6	16.2	19.4	16.8	18.0
24	9.6	8.6	9.0	13.5	10.7	12.1	18.2	15.0	16.7	19.5	17.6	18.2
25	10.0	7.6	8.9	11.8	8.4	10.2	19.7	16.1	17.9	19.6	16.6	17.9
26	11.0	9.2	9.9	13.0	9.4	11.2	20.4	17.1	18.7	20.4	17.2	18.6
27	10.4	7.1	8.8	15.1	11.6	13.2	19.8	18.1	18.7	21.7	18.5	19.9
28	7.1	5.1	6.0	17.3	13.7	15.3	19.0	17.7	18.2	20.4	18.3	19.8
29	7.4	4.5	6.0	16.4	13.2	15.1	18.0	15.2	16.2	18.6	17.5	18.0
30	---	---	---	13.2	10.5	11.7	15.2	12.7	14.1	20.2	17.8	19.0
31	---	---	---	10.6	9.8	10.3	---	---	---	22.4	19.5	20.7
Month	---	---	---	17.3	6.8	11.8	20.4	10.5	15.5	22.4	13.4	18.2

02124692 GOOSE CREEK AT FAIRVIEW, 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
	June			July			August			September		
1	23.1	20.5	21.7	23.7	20.9	22.4	26.5	24.0	25.0	23.9	23.2	23.5
2	23.5	21.1	22.2	23.9	19.0	21.4	26.4	23.7	24.9	23.3	22.0	22.5
3	22.9	20.6	21.8	24.8	21.0	22.7	26.3	23.6	24.9	22.7	21.0	21.8
4	25.1	21.4	23.0	25.4	21.9	23.4	26.2	23.4	24.6	22.9	20.4	21.6
5	25.4	22.6	23.8	24.6	21.9	23.2	26.8	23.4	25.0	22.0	20.2	21.2
6	26.5	23.5	24.7	23.3	22.2	22.7	27.3	23.9	25.4	22.8	21.3	22.0
7	27.1	23.4	25.0	23.2	22.0	22.5	26.4	23.8	25.0	23.7	22.3	22.9
8	27.3	23.2	25.1	24.5	22.4	22.9	25.9	23.3	24.3	24.0	22.2	23.1
9	27.5	24.0	25.5	24.1	22.3	23.2	24.3	21.6	23.0	23.9	22.4	23.1
10	27.5	23.4	25.4	24.4	23.0	23.6	24.9	21.9	23.3	23.4	22.3	22.8
11	26.7	22.5	24.5	24.5	23.3	23.8	24.7	21.5	23.2	22.3	21.8	22.0
12	23.9	21.8	22.8	25.0	23.2	24.0	23.7	19.8	21.9	23.0	21.6	22.1
13	25.0	23.2	24.0	25.6	23.2	24.3	22.4	20.5	21.6	24.0	21.7	22.7
14	25.8	23.1	24.3	24.1	23.5	23.8	20.9	19.8	20.4	24.5	22.4	23.3
15	25.7	23.1	24.2	24.4	22.7	23.5	22.8	20.4	21.5	24.2	22.9	23.5
16	26.2	22.4	24.3	24.5	21.9	23.1	23.0	20.9	21.7	23.2	21.1	21.9
17	26.2	22.8	24.3	24.6	21.3	22.9	22.7	21.5	22.1	21.1	19.6	20.3
18	24.3	20.7	22.5	24.7	21.1	22.9	22.7	21.3	21.9	20.4	18.8	19.5
19	23.6	19.4	21.5	25.7	22.5	23.9	23.7	20.7	22.1	20.1	18.1	19.0
20	22.4	19.6	21.2	26.1	22.4	24.1	23.9	20.9	22.4	19.2	17.2	18.3
21	23.7	20.5	21.9	26.9	22.9	24.7	23.6	21.1	22.4	18.9	17.6	18.2
22	23.2	20.5	21.7	26.7	23.1	24.9	23.9	21.2	22.6	20.1	17.9	18.8
23	23.7	20.8	21.9	24.8	22.8	23.4	23.7	21.4	22.7	19.0	17.3	18.2
24	23.6	20.6	22.0	24.1	22.8	23.4	23.2	20.8	22.2	18.6	16.6	17.6
25	24.4	20.6	22.4	23.2	22.0	22.3	23.0	21.4	22.2	17.3	16.4	16.8
26	25.5	21.4	23.3	22.5	21.7	22.1	22.3	22.0	22.1	17.2	16.7	17.0
27	26.1	22.5	24.0	24.2	22.3	23.2	23.9	22.3	23.3	18.7	17.2	17.9
28	24.5	22.3	23.5	24.6	23.3	24.0	23.7	23.0	23.4	19.1	18.3	18.7
29	24.8	22.9	23.8	25.0	23.7	24.3	23.9	22.8	23.3	20.0	18.7	19.2
30	24.8	23.1	23.9	25.9	23.9	24.8	23.9	23.1	23.6	20.7	18.7	19.5
31	---	---	---	26.6	24.4	25.1	24.3	23.2	23.7	---	---	---
Month	27.5	19.4	23.3	26.9	19.0	23.4	27.3	19.8	23.1	24.5	16.4	20.6

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	9.0	7.5	8.3	8.1	6.6	7.2	9.9	8.4	9.5
2	---	---	---	9.4	7.5	8.2	8.2	6.5	7.1	11.4	9.8	10.5
3	---	---	---	9.2	7.2	8.0	10.4	5.3	8.4	11.8	11.2	11.5
4	5.2	4.2	4.7	9.3	7.0	7.8	11.1	8.3	9.2	12.7	11.6	12.1
5	4.5	3.7	4.1	9.4	7.1	8.1	---	---	---	12.9	12.2	12.5
6	---	---	---	8.4	7.0	7.7	10.2	8.3	9.1	12.5	11.3	12.0
7	---	---	---	8.8	6.9	7.9	---	---	---	11.5	10.0	10.9
8	---	---	---	9.3	7.4	8.3	---	---	---	11.0	9.7	10.4
9	---	---	---	8.8	7.2	7.9	10.0	8.2	8.9	10.0	8.6	9.3
10	---	---	---	8.6	7.0	7.7	9.6	7.5	8.4	9.2	8.1	8.6
11	---	---	---	8.2	7.2	7.6	9.7	7.2	8.1	10.0	8.1	8.8
12	---	---	---	8.7	7.4	8.0	10.0	6.6	7.7	10.4	7.3	9.3
13	---	---	---	7.9	6.1	7.3	10.2	6.4	7.6	11.4	9.6	10.2
14	---	---	---	7.1	5.7	6.4	10.4	5.8	7.5	12.2	10.0	10.9
15	---	---	---	6.0	5.5	5.8	7.9	6.5	7.2	13.3	11.0	12.0
16	---	---	---	7.2	6.0	6.6	10.3	6.8	9.3	14.4	11.9	13.0
17	---	---	---	6.9	5.6	6.2	10.4	9.6	10.1	13.8	12.4	13.1
18	---	---	---	6.9	5.9	6.4	11.0	9.8	10.6	13.4	12.4	13.0
19	---	---	---	7.0	6.2	6.6	11.3	10.3	10.8	12.5	12.1	12.3
20	---	---	---	7.3	6.0	6.7	10.9	9.6	10.3	13.9	12.3	13.3
21	---	---	---	6.9	4.9	6.1	10.2	9.1	9.7	15.1	13.7	14.5
22	---	---	---	5.3	4.3	4.7	9.8	8.7	9.1	15.2	13.9	14.6
23	---	---	---	6.2	4.7	5.3	9.5	8.4	8.9	14.0	12.8	13.5
24	---	---	---	6.9	6.1	6.5	9.8	8.3	8.9	13.4	12.4	12.7
25	---	---	---	6.9	6.2	6.5	10.4	8.4	9.3	14.5	12.4	13.5
26	9.7	6.8	8.7	6.6	5.8	6.2	11.0	9.1	10.2	14.5	13.3	13.8
27	9.2	8.2	8.8	6.9	5.6	6.1	10.4	9.4	10.0	14.1	13.1	13.6
28	8.8	8.0	8.5	7.4	5.9	6.5	9.6	8.7	9.2	14.2	13.0	13.6
29	9.5	7.7	8.6	7.7	6.0	6.7	9.7	7.8	8.6	13.8	12.2	13.0
30	9.7	8.5	9.2	8.0	6.3	7.0	9.3	7.5	8.4	13.0	11.4	12.1
31	9.9	7.9	9.1	---	---	---	9.4	8.8	9.2	14.3	11.5	12.8
Month	---	---	---	9.4	4.3	7.0	---	---	---	15.2	7.3	12.0

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	13.4	10.9	12.2	10.2	7.9	9.0	8.8	7.8	8.4
2	---	---	---	13.1	10.3	11.5	9.4	6.7	8.0	7.9	6.8	7.5
3	---	---	---	12.9	9.9	11.2	7.7	6.2	7.0	7.4	6.5	6.9
4	---	---	---	11.3	8.1	9.5	9.6	7.0	8.3	7.1	6.4	6.7
5	---	---	---	9.2	8.2	8.8	9.0	7.8	8.4	7.4	6.4	6.9
6	10.5	8.9	9.7	9.9	8.5	9.2	8.4	6.3	7.8	7.5	6.8	7.1
7	10.9	8.7	9.7	9.1	8.4	8.6	6.8	6.2	6.5	7.6	6.9	7.3
8	11.9	9.3	10.5	8.9	8.3	8.6	7.0	5.8	6.3	7.2	6.6	6.9
9	12.5	10.2	11.2	10.2	8.9	9.6	6.8	5.1	6.0	6.9	6.3	6.6
10	12.9	10.4	11.6	10.2	8.7	9.5	6.8	4.8	5.6	7.0	6.2	6.5
11	---	---	---	9.8	8.3	9.0	6.5	4.9	5.5	6.8	6.2	6.5
12	---	---	---	9.5	8.1	8.7	5.2	4.0	4.6	7.5	6.5	7.0
13	---	---	---	9.7	7.9	8.6	6.7	4.4	5.4	8.0	7.2	7.5
14	---	---	---	9.5	7.4	8.3	7.8	5.0	6.4	8.2	7.0	7.5
15	---	---	---	---	---	---	8.2	6.4	7.3	8.1	7.0	7.5
16	---	---	---	---	---	---	8.8	6.7	7.6	7.8	6.4	7.1
17	---	---	---	---	---	---	9.5	6.8	8.1	7.8	6.5	7.1
18	---	---	---	---	---	---	9.8	7.3	8.3	8.0	6.9	7.3
19	---	---	---	---	---	---	9.4	7.3	8.3	7.7	6.8	7.1
20	---	---	---	10.2	8.7	9.4	9.5	7.0	8.1	7.8	6.5	7.1
21	---	---	---	10.9	8.9	9.8	9.5	7.0	8.1	8.1	6.4	7.1
22	14.9	12.3	13.3	10.6	8.8	9.5	9.1	7.1	8.0	8.1	6.7	7.1
23	13.3	11.6	12.6	10.9	8.3	9.3	8.5	6.9	7.7	8.6	6.8	7.3
24	12.8	11.0	11.9	11.1	8.4	9.7	8.9	6.8	7.8	8.6	6.7	7.3
25	13.8	11.4	12.4	11.8	9.3	10.4	8.4	6.6	7.5	8.4	6.8	7.3
26	11.8	10.7	11.2	11.8	9.0	10.2	8.1	6.3	7.0	8.8	6.5	7.4
27	12.7	10.8	11.7	11.4	8.3	9.7	6.3	1.7	4.3	8.8	6.5	7.3
28	14.0	11.8	12.8	11.2	7.5	9.0	8.0	4.5	6.9	7.6	5.3	6.7
29	14.8	12.3	13.3	10.2	6.7	8.2	8.8	7.9	8.4	8.4	7.0	7.9
30	---	---	---	9.9	7.6	8.5	9.2	8.4	8.8	7.3	5.8	6.7
31	---	---	---	10.4	8.2	9.1	---	---	---	6.6	5.2	5.8
Month	---	---	---	---	---	---	10.2	1.7	7.2	8.8	5.2	7.1

02124692 GOOSE CREEK AT FAIRVIEW, 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	6.3	4.9	5.4	7.1	5.0	5.7	5.2	4.1	4.6	---	---	---
2	6.3	4.7	5.2	7.6	5.2	6.0	4.9	4.2	4.5	---	---	---
3	6.7	4.6	5.3	7.2	5.0	5.8	5.8	4.5	5.0	---	---	---
4	6.7	4.4	5.3	7.7	5.0	6.0	5.7	4.4	4.9	---	---	---
5	5.8	4.0	4.7	7.5	4.9	6.1	5.8	4.3	4.9	---	---	---
6	5.6	3.9	4.5	6.2	3.7	5.7	5.8	4.2	4.8	6.4	5.0	5.7
7	6.4	4.0	4.9	5.8	5.1	5.5	---	---	---	6.5	5.8	6.2
8	6.4	4.1	4.9	6.1	4.8	5.2	---	---	---	6.2	5.5	5.9
9	6.2	3.8	4.8	6.4	5.1	5.8	---	---	---	6.0	4.8	5.5
10	7.0	3.7	5.0	5.4	4.9	5.1	---	---	---	6.0	4.9	5.4
11	7.2	3.7	5.0	4.9	4.2	4.5	---	---	---	5.8	5.2	5.5
12	5.1	4.0	4.5	5.3	4.7	5.0	---	---	---	6.3	5.4	5.9
13	---	---	---	5.5	4.8	5.1	---	---	---	6.4	5.5	5.9
14	---	---	---	6.5	4.9	5.5	---	---	---	6.2	5.4	5.7
15	6.5	4.8	5.4	6.5	5.7	6.2	---	---	---	6.0	5.2	5.6
16	6.8	4.7	5.4	6.1	5.3	5.7	---	---	---	6.1	5.2	5.5
17	6.9	4.7	5.4	6.1	4.9	5.5	---	---	---	6.6	5.1	5.9
18	7.3	4.8	5.7	6.2	4.8	5.5	---	---	---	6.8	6.3	6.5
19	8.1	5.1	6.4	6.1	4.7	5.3	---	---	---	7.1	6.5	6.7
20	7.8	5.3	6.3	6.2	4.4	5.2	---	---	---	7.4	6.5	6.9
21	8.4	5.1	6.4	6.2	4.2	5.0	---	---	---	7.5	5.8	6.7
22	6.6	4.8	5.6	6.1	4.2	4.9	---	---	---	7.3	6.0	6.6
23	6.9	4.9	5.6	6.9	4.2	5.9	---	---	---	7.5	6.4	6.9
24	6.0	4.8	5.3	6.7	5.8	6.4	---	---	---	7.6	6.6	6.9
25	7.1	4.9	5.7	6.5	5.9	6.1	---	---	---	7.9	6.7	7.2
26	7.2	4.8	5.7	6.0	5.6	5.8	---	---	---	7.3	6.0	6.8
27	7.8	4.6	5.7	5.7	5.1	5.5	---	---	---	7.7	6.2	7.2
28	6.3	4.1	4.6	5.5	5.1	5.3	---	---	---	7.2	6.5	7.0
29	5.8	4.6	5.1	5.5	5.0	5.2	---	---	---	6.7	6.2	6.4
30	6.1	4.7	5.2	5.7	4.9	5.3	---	---	---	6.9	5.9	6.3
31	---	---	---	5.5	4.5	5.0	---	---	---	---	---	---
Month	---	---	---	7.7	3.7	5.5	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	91	74	81	71	53	59	86	73	82
2	---	---	---	94	72	80	69	53	60	88	81	84
3	---	---	---	91	66	75	94	46	73	89	85	87
4	59	48	53	90	61	72	95	68	76	93	84	88
5	53	42	48	89	63	74	---	---	---	96	90	93
6	---	---	---	82	63	72	86	66	74	98	90	94
7	---	---	---	81	60	69	---	---	---	95	83	89
8	---	---	---	83	62	70	---	---	---	95	85	89
9	---	---	---	80	62	68	92	71	78	93	78	84
10	---	---	---	79	59	67	91	69	76	85	74	79
11	---	---	---	73	60	65	96	65	76	96	73	82
12	---	---	---	79	63	69	102	63	75	96	65	84
13	---	---	---	75	56	66	102	60	74	101	84	90
14	---	---	---	71	54	61	104	55	73	106	84	92
15	---	---	---	58	52	55	72	59	65	110	88	96
16	---	---	---	65	53	58	89	60	80	115	92	101
17	---	---	---	56	47	52	85	75	82	106	94	100
18	---	---	---	63	50	55	87	77	82	105	100	103
19	---	---	---	66	54	59	91	80	84	101	98	99
20	---	---	---	70	55	61	88	78	82	108	98	103
21	---	---	---	67	47	57	85	74	80	111	102	106
22	---	---	---	53	41	45	84	73	77	113	104	108
23	---	---	---	55	44	49	86	73	78	112	102	106
24	---	---	---	62	54	57	86	70	75	110	99	103
25	---	---	---	60	54	56	89	70	78	111	95	103
26	103	72	92	59	53	55	92	76	85	114	100	105
27	97	86	92	66	51	56	87	81	85	111	98	104
28	90	79	86	67	51	56	84	76	80	113	98	105
29	95	74	83	67	49	56	89	73	81	116	98	106
30	94	80	85	70	52	58	89	72	80	113	96	103
31	96	76	85	---	---	---	87	80	85	118	93	104
Month	---	---	---	94	41	62	---	---	---	118	65	96

02124692 GOOSE CREEK AT FAIRVIEW, 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	---	---	---	121	96	106	100	76	86	89	81	85
2	---	---	---	120	88	102	99	66	81	84	74	79
3	---	---	---	120	86	101	76	62	69	81	71	75
4	---	---	---	110	81	91	93	66	78	78	69	73
5	---	---	---	89	81	85	90	78	85	82	69	76
6	100	85	91	94	81	86	85	64	79	83	73	78
7	104	82	91	84	78	81	68	61	64	85	76	79
8	108	82	94	83	79	81	70	57	63	81	74	76
9	113	88	99	90	81	84	70	53	60	79	71	74
10	117	89	102	91	79	83	73	48	58	81	70	73
11	---	---	---	90	76	82	72	52	60	75	68	71
12	---	---	---	91	74	81	57	44	50	81	68	75
13	---	---	---	94	72	81	72	47	56	85	74	78
14	---	---	---	94	70	80	77	49	63	86	73	78
15	---	---	---	---	---	---	82	61	70	86	73	79
16	---	---	---	---	---	---	88	62	74	86	69	77
17	---	---	---	---	---	---	98	64	80	85	69	76
18	---	---	---	---	---	---	104	72	85	87	73	78
19	---	---	---	---	---	---	100	74	86	84	72	76
20	---	---	---	102	87	94	102	71	85	86	70	76
21	---	---	---	106	85	93	101	71	84	90	69	77
22	122	102	110	107	83	93	95	71	82	89	70	76
23	118	104	109	109	79	92	90	71	80	95	72	79
24	113	97	105	107	79	92	96	69	82	95	72	79
25	125	97	109	111	81	94	94	68	81	93	71	79
26	107	95	101	114	80	95	91	67	77	98	72	81
27	112	96	103	116	78	95	69	18	47	101	71	82
28	116	97	105	119	74	92	86	50	75	84	58	75
29	124	100	109	103	69	83	90	84	87	91	76	85
30	---	---	---	93	72	80	93	84	88	81	65	73
31	---	---	---	95	74	83	---	---	---	77	60	67
Month	---	---	---	---	---	---	104	18	74	101	58	77

02124692 GOOSE CREEK AT FAIRVIEW, 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	75	57	63	85	58	68	65	51	57	---	---	---
2	75	55	61	92	58	70	62	51	55	---	---	---
3	79	52	62	88	57	69	73	55	62	---	---	---
4	82	53	63	96	58	72	72	54	60	---	---	---
5	72	49	57	92	57	72	74	53	61	---	---	---
6	70	48	55	73	44	68	74	52	59	76	59	67
7	81	49	60	69	60	65	---	---	---	78	69	74
8	82	50	61	73	57	62	---	---	---	75	66	70
9	80	47	60	75	60	69	---	---	---	73	57	65
10	90	45	62	66	59	62	---	---	---	72	58	65
11	92	45	62	59	50	55	---	---	---	68	61	64
12	60	47	53	65	57	61	---	---	---	74	63	69
13	---	---	---	68	57	62	---	---	---	78	66	70
14	---	---	---	79	59	66	---	---	---	76	65	68
15	81	57	65	79	69	75	---	---	---	73	62	67
16	86	57	66	74	63	68	---	---	---	71	60	64
17	87	56	67	74	58	65	---	---	---	74	58	67
18	89	56	67	76	58	66	---	---	---	77	70	73
19	97	59	74	76	57	64	---	---	---	79	70	74
20	92	60	73	78	54	63	---	---	---	82	70	74
21	101	58	74	78	52	62	---	---	---	82	63	72
22	78	55	65	77	51	61	---	---	---	82	65	73
23	83	57	65	83	51	71	---	---	---	83	70	74
24	72	55	62	80	70	76	---	---	---	83	70	74
25	86	58	68	76	69	72	---	---	---	83	71	76
26	90	58	68	71	66	68	---	---	---	77	64	72
27	98	55	70	68	62	66	---	---	---	82	66	78
28	76	48	56	67	61	64	---	---	---	79	72	76
29	71	55	62	68	61	64	---	---	---	74	68	71
30	75	57	63	72	60	65	---	---	---	77	66	70
31	---	---	---	70	55	62	---	---	---	---	---	---
Month	---	---	---	96	44	66	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
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	---	---	---	17	10	14	6.7	0.9	4.1	43	27	32
2	---	---	---	11	6.9	8.3	5.6	1.9	3.4	29	21	25
3	---	---	---	14	4.0	5.8	---	---	---	24	18	21
4	1.9	0.8	1.2	5.3	2.7	4.2	2.9	0.1	1.6	22	15	19
5	1.9	0.4	1.0	4.9	1.9	3.2	---	---	---	17	12	15
6	---	---	---	6.7	2.9	4.4	8.2	0.3	1.7	15	11	13
7	---	---	---	24	4.3	9.8	---	---	---	18	8.5	11
8	---	---	---	11	4.1	8.3	---	---	---	9.9	5.8	7.3
9	---	---	---	8.9	2.2	4.2	21	3.0	5.3	8.8	5.2	6.6
10	---	---	---	7.0	3.2	4.7	16	1.4	3.9	6.4	3.8	5.2
11	---	---	---	19	2.7	8.3	5.3	1.0	2.5	6.2	3.3	4.3
12	---	---	---	3.4	1.9	2.6	6.1	0.8	2.5	12	3.1	4.5
13	---	---	---	3.2	1.4	2.3	4.0	1.1	2.4	9.0	3.8	4.9
14	---	---	---	16	0.7	2.0	4.1	0.2	1.6	23	4.0	5.6
15	---	---	---	20	0.0	1.1	4.0	0.6	1.8	6.1	3.8	4.8
16	---	---	---	4.3	0.0	0.7	270	3.7	140	5.7	3.2	3.8
17	---	---	---	11	0.3	2.8	130	85	100	130	3.5	38
18	---	---	---	3.7	0.8	1.7	110	87	95	470	36	87
19	---	---	---	5.3	0.5	1.6	94	73	83	37	23	29
20	---	---	---	0.9	0.0	0.2	73	49	63	27	13	19
21	---	---	---	0.7	0.0	0.1	49	34	42	14	11	12
22	---	---	---	6.8	0.0	1.7	36	18	26	34	9.9	12
23	---	---	---	6.0	1.2	3.7	21	8.5	13	38	9.4	16
24	---	---	---	3.0	0.0	0.7	10	7.4	8.9	12	5.2	7.8
25	---	---	---	3.3	0.0	0.5	9.3	4.1	6.0	9.6	2.9	5.3
26	450	3.3	100	0.9	0.0	0.1	270	4.3	100	9.1	2.5	5.5
27	140	63	99	0.8	0.0	0.1	200	110	150	9.6	2.6	5.6
28	64	32	46	4.6	0.0	0.1	130	81	100	8.7	2.7	4.6
29	32	23	27	13	0.0	1.1	230	71	130	8.8	2.8	5.1
30	26	19	23	9.5	1.1	2.5	1,160	170	460	12	1.6	5.4
31	20	14	17	---	---	---	210	38	89	6.6	1.7	3.8
Month	---	---	---	24	0.0	3.4	---	---	---	470	1.6	14

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

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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	---	---	---	16	8.0	11	120	2.2	10	72	12	17
2	---	---	---	14	5.1	7.8	4.9	1.9	3.1	87	7.5	14
3	---	---	---	24	5.0	7.5	6.0	1.9	3.4	88	6.6	13
4	---	---	---	550	4.9	59	1,170	3.9	42	17	5.5	8.8
5	---	---	---	600	110	270	1,170	63	210	40	4.4	8.6
6	28	7.8	11	110	59	77	72	28	40	13	4.3	6.4
7	12	8.1	10	770	50	180	30	17	22	29	4.4	7.5
8	13	5.8	8.5	470	110	180	25	11	17	20	4.7	6.9
9	9.2	4.5	6.4	160	73	96	36	8.2	11	21	4.7	6.9
10	8.0	4.1	5.9	110	67	82	13	6.6	9.0	12	4.2	5.9
11	11	3.4	5.2	120	59	73	11	5.1	7.2	33	3.3	7.2
12	8.2	2.8	5.0	93	49	64	14	5.4	7.2	16	3.1	5.4
13	160	4.5	17	77	40	49	12	3.2	6.0	7.7	2.1	4.2
14	170	31	67	62	29	39	12	2.1	4.6	5.4	1.6	3.4
15	51	20	30	---	---	---	11	1.8	3.6	4.0	2.3	3.2
16	25	16	19	---	---	---	22	1.8	4.0	15	3.3	4.9
17	20	10	14	---	---	---	13	2.1	4.2	8.5	4.8	5.9
18	310	12	140	---	---	---	9.6	3.1	4.8	6.6	4.3	5.4
19	100	38	59	---	---	---	37	3.5	6.2	8.6	5.3	6.9
20	48	22	29	90	28	48	36	3.4	6.3	11	6.6	8.2
21	23	11	16	46	22	32	45	2.0	5.6	15	3.5	5.2
22	39	13	25	25	14	18	15	2.1	5.3	11	2.4	3.9
23	46	19	26	21	7.9	11	48	3.0	5.3	7.0	2.8	4.1
24	21	11	15	11	5.5	7.9	13	2.6	5.5	6.0	2.9	4.5
25	12	6.4	8.4	9.5	3.6	5.6	6.5	2.7	4.4	4.6	2.1	3.3
26	120	6.2	36	34	2.9	4.9	930	2.8	43	5.8	2.5	3.7
27	73	26	48	11	3.0	4.6	960	18	150	5.2	3.5	4.4
28	51	32	41	8.2	3.0	4.4	1,130	40	370	120	4.1	14
29	33	14	21	6.5	1.9	3.9	160	38	81	67	30	37
30	---	---	---	7.1	1.4	3.8	40	19	27	58	14	23
31	---	---	---	28	1.4	3.2	---	---	---	18	12	15
Month	---	---	---	---	---	---	1,170	1.8	37	120	1.6	8.6

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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	15	11	12	6.4	3.5	4.7	35	12	14	740	43	90
2	12	8.0	10	8.1	2.1	3.2	18	11	14	62	39	47
3	9.0	6.5	7.8	5.4	2.6	3.8	42	11	14	52	30	38
4	7.6	5.4	6.4	170	2.1	7.2	27	12	16	48	28	37
5	7.2	4.3	5.3	15	1.2	2.2	17	12	14	37	13	26
6	5.5	3.8	4.5	360	11	200	16	12	13	80	12	31
7	4.4	2.9	3.6	200	62	120	20	12	14	36	11	19
8	4.6	2.5	3.2	490	39	100	20	12	15	22	11	16
9	4.0	2.5	3.0	790	140	280	21	13	16	25	13	19
10	6.8	2.1	2.5	230	95	130	24	13	15	35	11	18
11	970	1.7	140	140	48	92	18	14	15	18	11	15
12	770	25	150	49	27	37	17	13	15	25	13	17
13	28	9.5	16	38	17	23	20	14	16	18	12	15
14	13	6.5	10	55	16	26	46	15	22	17	11	15
15	13	4.6	6.9	35	23	29	31	15	18	21	12	17
16	7.1	3.7	5.0	27	16	20	24	15	18	30	16	21
17	400	3.2	13	39	11	16	79	17	22	47	19	34
18	4.7	1.5	3.0	16	9.4	12	59	20	27	---	---	---
19	950	1.0	31	13	10	12	32	19	25	---	---	---
20	40	1.4	2.6	16	8.7	11	29	19	22	24	9.4	18
21	4.3	1.8	2.5	11	7.9	8.8	38	19	24	17	12	15
22	46	2.5	6.3	12	7.7	8.8	54	21	22	23	11	17
23	37	4.9	8.9	---	---	---	39	20	23	30	14	21
24	18	6.5	12	---	---	---	25	21	23	19	14	16
25	9.8	4.6	6.2	130	46	77	330	20	81	21	13	17
26	7.5	4.5	6.0	46	28	37	460	110	190	94	18	26
27	8.5	2.1	3.8	39	21	28	970	120	370	72	20	28
28	12	2.8	6.5	30	17	23	130	55	80	48	30	36
29	9.0	5.2	6.5	35	14	22	68	43	51	58	31	39
30	13	4.3	7.9	25	15	18	84	33	41	52	29	37
31	---	---	---	32	14	18	990	29	75	---	---	---
Month	970	1.0	17	---	---	---	990	11	43	---	---	---