

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to September 2002.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to September 2002.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to September 2002.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Land Use and Environmental Services Agency to characterize water-quality conditions in Briar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	1640, January 23, 2003	15, August 2, 2002
pH, standard units	9.3, August 8, 1999	5.7, April 27, 1999, August 2, 2002
WATER TEMPERATURE, °C	35.2, July 21, 2002	0.0, January 25, 2003
DISSOLVED OXYGEN, mg/L	17.3, February 23, 2002	0.1, November 15, 2001
DISSOLVED OXYGEN, PERCENT SATURATION,%	200, April 25, 1999	0, November 15, 2001

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	1640, January 23	25, April 10
WATER TEMPERATURE, °C	29.3, August 29	0.0, January 25

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	116	108	112	163	152	159	185	176	180	172	140	160
2	121	115	118	171	162	166	177	175	176	166	158	161
3	126	119	122	179	163	170	178	175	176	174	117	139
4	128	124	126	167	164	166	556	152	183	175	162	165
5	131	126	128	168	56	137	654	55	130	174	168	172
6	135	129	132	112	55	84	147	120	136	179	174	176
7	142	114	122	138	112	127	159	140	149	189	149	174
8	123	119	121	145	138	142	161	146	154	189	156	175
9	134	119	127	150	144	148	168	161	165	191	179	184
10	144	133	138	153	147	150	176	168	172	182	176	179
11	144	32	66	155	52	97	274	65	106	182	178	180
12	87	70	79	90	40	66	154	122	140	181	176	179
13	89	33	74	130	88	113	157	42	103	179	174	177
14	111	88	101	137	130	134	146	103	131	178	175	176
15	111	55	87	153	135	138	159	146	153	178	172	175
16	100	41	73	154	33	97	167	159	162	175	170	173
17	113	100	107	89	43	72	169	166	167	244	162	201
18	122	113	117	116	89	106	174	169	172	316	146	188
19	125	122	123	128	116	123	174	170	172	201	177	195
20	134	125	129	134	127	131	173	61	106	207	192	199
21	148	98	133	167	134	156	191	124	148	265	207	243
22	98	63	76	179	167	176	190	161	165	312	240	281
23	113	90	102	188	179	184	172	164	168	1,640	223	426
24	132	113	123	191	184	186	174	32	110	1,050	470	674
25	155	132	144	199	191	193	118	47	88	858	413	577
26	160	150	156	199	195	198	142	118	131	788	439	566
27	163	160	162	209	193	197	165	141	153	461	300	383
28	164	56	125	208	174	186	168	157	160	324	254	274
29	118	82	103	182	175	176	165	160	162	765	293	374
30	138	118	129	186	177	181	165	164	164	780	101	304
31	152	138	144	---	---	---	172	165	168	189	125	165
MONTH	164	32	116	209	33	145	654	32	150	1,640	101	251
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	232	189	202	166	73	141	160	137	150	246	239	244
2	208	203	206	141	78	113	170	160	163	242	149	211
3	226	200	211	154	141	149	175	167	169	215	101	177
4	209	159	190	168	152	161	185	174	180	226	104	178
5	190	177	183	176	140	162	187	162	178	234	207	223
6	187	105	177	170	44	96	189	107	176	212	56	99
7	191	77	106	150	118	136	107	34	71	167	108	141
8	294	191	239	167	150	158	126	46	111	214	120	178
9	201	185	190	169	163	165	108	43	73	218	195	204
10	224	130	155	174	167	169	65	25	46	222	200	214
11	176	151	163	180	174	176	113	61	94	223	199	214
12	182	175	178	182	176	179	132	113	123	229	198	212
13	184	177	180	182	175	180	143	132	137	225	200	212
14	183	161	177	184	177	181	165	142	151	233	194	213
15	235	169	186	184	62	154	183	154	163	229	94	196
16	217	155	175	119	36	85	180	163	175	194	102	143
17	927	217	446	149	119	135	198	179	187	217	183	204
18	828	232	508	152	125	137	195	47	75	215	82	170
19	232	223	228	153	107	143	129	77	108	194	115	156
20	230	219	224	110	33	65	162	129	144	223	183	200
21	246	225	235	133	105	121	179	162	172	232	51	168
22	230	64	151	142	132	136	770	177	570	101	41	64
23	173	122	154	155	142	147	492	371	422	134	95	114
24	181	168	173	168	155	159	371	295	317	163	70	146
25	183	174	179	177	168	171	300	188	251	108	40	76
26	224	127	178	179	174	177	230	125	187	152	98	130
27	127	74	99	196	174	183	205	147	175	129	40	96
28	151	103	132	195	179	186	245	205	226	159	104	138
29	---	---	---	185	178	182	256	213	244	173	154	162
30	---	---	---	184	49	94	240	215	231	189	168	176
31	---	---	---	137	100	121	---	---	---	191	71	126
MONTH	927	64	201	196	33	147	770	25	182	246	40	167

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	175	97	143	174	125	159	---	---	---	159	134	148
2	189	168	177	125	38	82	---	---	---	172	159	164
3	194	60	142	150	106	132	---	---	---	176	169	173
4	136	102	117	171	150	164	---	---	---	177	100	151
5	185	136	160	177	171	175	124	43	80	149	110	129
6	202	141	184	181	176	178	133	77	112	168	149	158
7	141	26	72	181	178	179	157	133	146	172	167	168
8	118	48	93	183	179	181	150	68	112	173	168	170
9	143	55	112	185	160	178	148	124	135	174	163	168
10	169	143	154	188	160	176	164	148	157	175	169	172
11	177	160	170	176	74	145	164	134	153	174	169	172
12	181	75	147	154	82	124	172	164	169	175	168	172
13	187	131	167	111	39	75	167	150	157	174	167	171
14	209	183	194	144	79	115	170	94	151	174	167	171
15	215	190	205	180	144	162	143	100	118	175	166	171
16	215	77	177	186	177	182	153	68	112	176	166	171
17	164	98	137	177	36	98	150	83	125	175	169	172
18	169	101	131	153	116	135	149	96	127	175	171	172
19	162	120	145	158	101	138	167	148	159	175	168	172
20	188	161	173	210	102	141	174	165	168	173	167	171
21	195	174	185	210	92	163	177	172	174	174	168	171
22	208	180	196	155	96	129	179	172	175	175	66	158
23	211	192	202	168	155	159	179	168	173	97	52	76
24	231	186	203	174	159	168	179	174	176	139	97	117
25	195	184	189	176	172	174	178	167	172	163	139	151
26	188	180	183	176	134	169	175	164	169	168	161	163
27	186	70	162	168	144	156	176	166	171	171	96	164
28	152	79	125	176	168	172	177	151	172	137	98	117
29	166	146	156	178	38	131	157	118	133	159	136	146
30	178	148	167	124	64	98	171	101	152	163	158	160
31	---	---	---	148	101	133	156	110	135	---	---	---
MONTH	231	26	159	210	36	147	---	---	---	177	52	158

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	26.1	21.6	23.6	13.6	11.1	12.2	8.8	4.9	6.7	13.6	10.7	12.0
2	28.1	21.7	24.8	14.0	9.2	11.3	7.6	2.9	5.5	11.2	10.2	10.6
3	27.9	22.9	25.3	13.6	9.7	11.4	9.8	5.0	7.1	11.7	8.8	10.5
4	27.8	23.2	25.4	13.8	11.0	12.2	6.8	3.1	4.6	9.1	5.9	7.5
5	28.9	23.5	25.9	12.6	11.8	12.2	5.1	2.5	4.0	9.5	5.0	6.8
6	27.1	22.2	24.6	14.8	11.2	12.8	7.0	4.8	5.6	8.0	5.5	6.7
7	25.9	20.6	24.0	13.9	9.1	11.0	7.7	4.0	5.5	7.3	3.4	5.3
8	22.6	18.2	20.0	14.1	8.3	10.8	7.1	3.6	5.4	8.8	4.2	6.4
9	20.0	17.4	18.4	15.3	9.8	12.3	7.4	5.1	6.1	11.3	6.3	8.7
10	21.4	17.5	19.2	17.3	13.0	15.0	6.7	5.0	5.9	12.0	7.7	9.8
11	20.6	18.9	19.7	18.2	16.6	17.2	7.0	5.4	6.3	8.5	4.7	6.4
12	23.3	18.6	20.3	16.9	14.9	16.1	9.2	6.9	7.8	6.6	2.5	4.5
13	20.9	19.5	20.2	15.3	11.5	13.8	7.7	6.4	7.2	5.4	2.8	4.1
14	19.5	16.5	18.0	13.3	9.3	11.2	9.5	6.9	8.0	7.5	2.6	5.0
15	16.5	14.7	15.2	13.4	9.1	11.3	8.6	4.9	6.7	7.3	2.7	5.0
16	17.2	14.5	15.7	13.6	12.5	13.0	9.6	5.0	7.2	5.6	2.2	3.8
17	17.3	14.2	15.5	13.2	10.9	12.7	8.9	6.2	7.6	6.8	3.0	4.6
18	17.3	12.4	14.5	12.0	8.3	10.0	8.4	6.8	7.7	5.3	0.5	2.9
19	17.4	12.2	14.4	11.4	7.2	9.3	9.8	7.7	8.7	4.6	0.8	2.5
20	16.8	13.9	15.3	12.8	8.3	10.5	12.9	8.9	11.3	7.7	1.6	4.3
21	17.3	15.1	16.4	13.8	10.8	12.1	9.8	6.6	8.1	7.1	5.3	6.2
22	15.1	14.4	14.6	12.4	8.5	10.9	10.9	6.1	8.3	8.0	4.0	5.8
23	18.4	14.1	15.6	11.0	6.5	8.4	10.2	6.3	8.4	5.4	0.2	2.2
24	15.8	14.6	15.2	12.0	6.4	8.8	8.3	6.5	7.7	2.6	0.1	0.8
25	15.2	14.2	14.6	12.7	7.5	9.7	8.9	6.2	7.6	4.2	0.0	1.9
26	16.6	13.9	15.2	11.8	7.4	9.4	7.6	4.8	6.2	6.7	1.8	3.8
27	18.3	15.4	16.7	10.3	7.2	9.0	7.8	3.6	5.7	5.5	1.6	3.4
28	17.3	16.0	16.7	8.9	4.6	6.6	7.8	3.5	5.6	6.6	1.4	3.7
29	16.0	13.4	14.5	8.2	3.3	5.6	9.7	4.8	7.0	7.3	4.2	5.7
30	13.5	12.4	13.0	11.7	6.3	8.2	9.1	5.5	7.4	7.1	4.8	6.0
31	15.1	10.8	12.7	---	---	---	10.7	6.9	8.8	6.2	4.7	5.4
MONTH	28.9	10.8	18.2	18.2	3.3	11.2	12.9	2.5	7.0	13.6	0.0	5.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.9	5.5	7.2	9.2	7.5	8.2	16.9	8.0	12.1	23.7	18.6	20.7
2	10.7	4.7	7.5	10.9	8.0	9.1	20.2	12.0	15.6	25.1	18.1	20.7
3	12.4	6.9	9.5	12.7	6.5	9.3	21.5	13.7	17.1	22.2	17.1	19.4
4	14.1	9.2	11.6	13.6	7.0	10.2	20.1	14.9	17.4	18.9	16.5	17.8
5	10.8	5.8	8.2	13.6	10.4	11.9	18.4	15.8	16.8	16.5	15.0	15.6
6	7.6	5.7	6.6	12.5	11.4	12.0	20.2	13.9	16.6	18.5	16.0	17.3
7	7.9	5.0	6.3	11.7	8.6	10.3	16.1	11.4	12.3	20.7	16.9	18.6
8	8.8	4.1	6.2	14.2	6.6	10.1	11.4	10.1	11.1	24.9	18.0	21.1
9	9.8	4.7	6.7	17.3	10.0	13.0	10.7	9.2	10.0	24.8	19.5	22.0
10	7.9	5.6	6.5	15.9	9.8	12.6	9.9	8.0	9.0	25.9	20.1	22.7
11	9.6	3.6	6.4	14.0	8.9	11.1	12.7	9.3	10.7	22.8	19.4	21.4
12	11.1	5.4	7.7	17.1	8.7	12.6	17.4	9.9	13.3	23.4	17.6	19.8
13	10.1	3.4	6.7	17.9	11.4	14.3	18.9	11.6	14.9	23.2	16.3	19.2
14	7.6	5.0	6.4	17.0	13.2	14.7	20.5	12.8	16.3	21.0	15.8	18.2
15	13.0	7.4	9.7	13.2	10.4	11.5	21.6	14.7	17.8	19.6	17.2	18.2
16	9.6	1.4	4.9	12.5	10.0	11.3	22.1	15.1	18.2	21.2	18.0	19.3
17	4.4	1.6	2.9	14.3	12.0	13.0	20.4	15.6	18.0	19.4	17.2	18.4
18	7.7	3.8	5.5	15.2	12.8	13.8	17.6	12.5	14.1	17.2	15.7	16.5
19	9.5	4.9	7.0	14.3	11.8	13.5	13.6	12.2	12.8	16.2	14.9	15.6
20	11.0	7.7	8.9	11.8	9.1	10.1	15.8	13.0	14.1	21.8	14.9	17.9
21	9.6	7.2	8.4	16.9	10.4	13.1	15.9	14.4	15.2	19.5	17.4	18.3
22	10.7	8.7	9.3	17.5	11.0	14.1	19.7	14.8	16.7	18.1	17.2	17.7
23	12.9	8.6	10.6	17.2	11.1	14.1	19.8	12.4	15.6	18.1	16.8	17.4
24	13.3	6.4	9.6	19.1	11.8	15.0	18.3	12.3	15.2	19.0	16.7	17.6
25	11.6	8.0	9.8	19.5	11.8	15.4	15.6	14.6	15.1	20.2	18.2	19.1
26	9.4	6.3	7.9	20.5	13.8	16.8	19.6	15.1	16.9	20.5	18.1	19.2
27	6.3	5.2	5.6	18.9	13.8	16.4	21.7	14.8	17.8	19.1	17.6	18.3
28	8.6	5.6	6.9	18.3	14.0	16.4	22.7	15.0	18.4	20.9	16.4	18.5
29	---	---	---	21.2	16.4	18.4	22.9	16.2	19.2	20.6	16.8	18.5
30	---	---	---	18.4	10.0	12.5	24.4	17.5	20.6	21.6	16.3	18.8
31	---	---	---	14.0	8.0	10.7	---	---	---	22.0	17.0	19.2
MONTH	14.1	1.4	7.5	21.2	6.5	12.8	24.4	8.0	15.3	25.9	14.9	18.8

SANTEE RIVER BASIN

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.8	17.3	19.2	22.9	20.8	21.9	---	---	---	27.2	23.0	24.8
2	21.3	15.8	18.4	22.3	20.5	21.4	---	---	---	27.8	22.9	25.0
3	20.2	17.5	18.7	24.6	20.6	22.3	---	---	---	27.3	23.1	24.9
4	22.3	18.7	20.4	26.6	20.9	23.3	---	---	---	25.7	23.6	24.4
5	23.1	18.6	20.5	27.0	22.2	24.2	25.4	21.6	23.1	25.6	21.7	23.4
6	22.9	17.8	20.1	26.4	22.5	24.1	25.2	22.4	23.6	22.7	20.2	21.3
7	22.0	20.5	21.2	25.9	22.6	23.9	24.7	22.0	23.3	21.7	19.2	20.4
8	23.1	20.0	21.2	27.4	22.4	24.7	25.4	22.3	23.6	22.0	19.6	20.7
9	23.6	19.8	21.6	27.8	23.3	24.8	25.8	22.1	23.8	23.6	19.7	21.4
10	24.4	19.3	21.5	27.1	22.4	24.3	24.0	22.2	23.0	22.5	19.4	20.7
11	24.3	19.6	21.7	27.2	22.5	24.5	25.3	21.3	23.2	22.6	17.8	19.9
12	25.1	20.8	22.6	27.3	22.4	24.4	25.5	22.4	23.8	21.9	17.8	19.6
13	24.5	21.0	22.5	24.3	22.1	23.0	26.6	22.6	24.1	24.5	18.2	21.0
14	25.8	21.0	23.0	23.7	21.8	22.7	26.4	22.8	24.5	24.5	19.8	21.8
15	26.0	21.5	23.4	25.0	21.5	23.1	27.5	23.5	25.2	24.8	20.1	22.3
16	25.1	21.6	23.0	27.2	22.1	24.3	26.0	24.0	24.9	24.0	20.5	21.9
17	22.8	21.4	21.9	25.7	23.2	24.2	26.3	23.0	24.6	22.8	18.2	20.3
18	24.0	21.2	22.2	26.0	22.5	24.0	27.1	22.8	24.7	19.7	18.2	19.1
19	25.1	21.1	22.8	25.2	22.3	23.5	26.4	23.1	24.4	24.3	18.1	20.7
20	24.7	21.2	22.6	25.7	21.8	23.6	26.7	22.6	24.2	24.3	18.4	21.0
21	23.6	18.6	20.8	26.2	22.7	24.3	26.8	22.6	24.4	23.6	18.9	21.0
22	24.0	17.9	20.6	26.5	22.8	24.4	27.1	22.9	24.4	22.6	20.0	21.1
23	25.1	18.7	21.4	23.8	21.8	22.7	27.2	22.5	24.5	24.0	20.4	22.2
24	25.4	19.4	22.1	25.6	20.6	22.7	26.8	23.2	24.6	23.4	18.2	20.5
25	26.1	20.0	22.7	26.4	21.0	23.3	26.5	21.8	24.0	24.0	17.9	20.5
26	26.6	20.7	23.4	26.5	21.8	23.6	27.8	22.8	25.0	23.7	18.3	20.7
27	26.1	21.7	23.6	26.8	22.5	24.2	28.4	23.5	25.7	24.6	18.9	21.3
28	22.9	21.3	22.0	28.0	23.0	25.1	28.5	24.1	26.0	23.6	18.9	21.1
29	25.4	20.7	22.7	27.2	23.2	24.7	29.3	24.4	26.4	20.3	15.9	17.9
30	26.4	21.7	23.4	25.3	23.2	24.0	29.0	24.1	26.1	19.4	13.8	16.2
31	---	---	---	25.0	22.6	23.6	25.5	23.8	24.7	---	---	---
MONTH	26.6	15.8	21.7	28.0	20.5	23.7	---	---	---	27.8	13.8	21.2