

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

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 current 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	1520, January 5, 2002	27, September 23, 2000
pH, standard units	9.6, October 8, 1999	6.0, June 27, 1999
WATER TEMPERATURE, °C	35.0, July 31, 1999	-0.2, December 26, 31, 2000, January 3, 4, 2001, January 4, 2002, January 24, 2003
DISSOLVED OXYGEN, mg/L	15.4, February 3, 2001, January 5, 2002	2.7, April 13, 14, 2001
DISSOLVED OXYGEN, PERCENT SATURATION,%	191, May 30, 2002	24, September 5, 1999

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

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	1430, February 17	30, June 7
WATER TEMPERATURE, °C	32.0, August 27	-0.2, January 24

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	156	145	151	---	---	---	205	203	204	196	160	182
2	167	156	164	170	164	166	205	199	202	186	172	176
3	171	167	169	175	170	171	200	197	198	186	148	160
4	178	169	173	179	174	176	399	187	211	178	159	169
5	183	175	178	175	62	143	313	70	121	193	178	188
6	189	180	184	112	58	84	158	129	144	198	193	195
7	189	158	180	145	112	131	181	157	168	204	196	200
8	158	140	149	160	145	155	182	169	176	211	199	202
9	162	140	155	170	160	164	191	181	186	231	200	210
10	171	162	167	182	170	177	199	190	193	232	223	228
11	170	32	71	183	72	115	195	80	108	230	211	215
12	114	84	103	109	55	81	160	115	141	215	210	212
13	121	38	83	155	102	132	166	51	106	210	198	202
14	119	84	104	181	155	172	158	100	134	208	198	204
15	128	54	101	190	181	187	178	158	169	210	203	206
16	103	42	71	190	69	137	188	178	184	226	200	206
17	137	103	122	136	74	111	193	183	190	282	205	226
18	155	137	147	172	136	156	195	189	192	221	208	214
19	168	155	162	181	172	178	195	190	192	246	219	230
20	175	168	172	195	181	190	194	74	106	230	201	209
21	177	80	145	201	195	198	160	112	139	227	200	206
22	90	71	81	205	201	203	186	160	171	233	205	215
23	110	88	100	207	204	205	190	186	188	878	210	327
24	129	110	120	205	203	204	189	37	114	795	422	543
25	144	129	137	207	205	206	129	54	89	867	551	676
26	149	144	147	208	206	207	164	129	150	654	509	556
27	158	149	153	214	207	209	182	164	176	530	378	461
28	158	77	129	209	206	207	195	182	192	378	306	346
29	120	82	102	209	203	206	198	194	196	634	266	326
30	142	120	130	208	204	206	198	197	197	634	105	244
31	---	---	---	---	---	---	201	193	197	183	118	155
MONTH	---	---	---	---	---	---	399	37	166	878	105	261
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	204	183	196	184	94	160	194	168	181	217	168	213
2	214	204	209	154	86	118	201	189	194	217	167	209
3	218	211	212	185	154	173	206	197	201	190	178	184
4	218	170	193	197	185	190	212	202	205	190	151	165
5	198	175	191	197	161	174	212	159	192	203	175	192
6	205	120	191	174	46	96	195	143	187	198	60	86
7	133	87	107	172	130	155	156	51	84	167	88	135
8	195	133	159	191	172	183	160	79	142	175	146	158
9	212	195	203	199	191	196	131	61	91	235	175	197
10	196	125	152	202	197	199	88	43	63	208	201	206
11	183	158	168	210	201	205	155	82	125	211	205	208
12	197	183	190	209	206	208	177	155	167	210	204	207
13	201	197	198	229	205	211	186	176	182	214	187	205
14	219	170	195	212	207	210	198	186	191	213	192	206
15	197	167	175	214	90	181	213	198	208	218	52	188
16	287	171	202	134	46	91	216	209	213	165	92	133
17	1,430	287	661	174	134	157	219	213	215	200	165	185
18	759	297	534	172	155	163	217	55	109	205	103	180
19	301	231	240	189	104	172	148	79	121	175	112	143
20	253	234	240	130	45	77	181	148	166	212	175	197
21	250	235	240	174	130	157	194	181	187	220	65	167
22	262	75	165	188	174	184	433	185	263	125	64	83
23	182	118	158	199	188	195	386	261	293	178	125	154
24	204	182	196	206	197	203	265	231	238	202	91	186
25	204	200	202	210	202	205	231	166	196	142	69	100
26	209	141	194	222	206	211	---	---	---	192	68	171
27	152	82	113	222	206	212	---	---	---	152	72	117
28	167	100	140	226	208	214	---	---	---	173	151	160
29	---	---	---	225	207	215	214	206	211	187	173	183
30	---	---	---	225	68	116	224	206	213	---	---	---
31	---	---	---	168	109	144	---	---	---	204	74	149
MONTH	1,430	75	215	229	45	173	---	---	---	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT 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	167	89	134	194	159	185	185	163	175	---	---	---
2	196	167	184	159	47	88	192	185	189	---	---	---
3	196	72	148	166	122	145	195	71	155	195	185	191
4	141	89	122	188	166	178	153	45	114	195	132	175
5	181	141	164	197	187	192	128	47	86	165	133	148
6	197	108	184	201	195	198	153	74	124	183	165	176
7	108	30	67	205	198	203	187	139	169	192	183	187
8	139	32	100	218	201	206	156	105	129	195	190	192
9	153	71	119	225	92	182	166	128	149	197	192	194
10	185	153	173	179	120	163	185	166	177	200	192	197
11	200	185	193	228	83	163	187	182	185	200	168	189
12	---	---	---	155	73	122	189	158	184	199	170	186
13	---	---	---	111	47	76	180	146	167	200	172	188
14	---	---	---	152	78	119	188	76	161	205	189	199
15	---	---	---	182	152	170	162	104	136	204	178	196
16	---	---	---	199	180	188	172	86	132	208	193	199
17	144	52	104	195	42	113	168	125	152	206	200	202
18	141	42	94	167	124	151	172	139	154	203	201	202
19	151	88	123	168	44	133	225	172	190	204	200	202
20	186	130	163	166	86	139	197	186	192	209	200	203
21	199	186	195	195	165	180	201	193	197	207	199	202
22	207	199	204	174	141	154	203	77	179	205	88	186
23	210	205	208	178	166	170	197	144	173	117	63	88
24	212	205	208	192	167	182	201	196	199	156	117	139
25	209	204	207	198	192	195	205	193	199	174	156	166
26	212	186	200	201	98	180	208	177	200	185	174	180
27	206	124	198	183	128	156	203	173	186	190	155	185
28	171	103	145	192	182	186	209	193	202	190	126	142
29	193	171	183	195	44	144	---	---	---	189	146	162
30	198	191	195	134	65	98	---	---	---	194	175	179
31	---	---	---	163	88	133	---	---	---	---	---	---
MONTH	---	---	---	228	42	158	---	---	---	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT 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	25.6	21.5	23.5	---	---	---	7.6	4.8	6.2	13.4	10.3	11.8
2	26.8	21.5	24.2	12.4	9.2	11.1	7.6	3.4	5.6	11.4	10.4	10.8
3	26.9	22.0	24.5	13.3	10.1	11.8	8.3	4.8	6.8	11.6	9.0	10.6
4	26.6	22.4	24.5	14.0	11.5	12.7	7.3	3.8	4.8	9.0	6.3	7.6
5	27.2	22.5	24.8	13.2	12.0	12.5	4.9	2.8	3.9	8.8	5.3	6.9
6	25.7	21.4	23.4	14.5	11.6	12.8	7.2	4.9	5.7	7.7	5.1	6.5
7	25.3	20.8	22.7	13.1	9.6	11.2	7.6	4.6	5.7	6.4	3.6	5.0
8	21.5	17.8	19.3	13.1	8.7	10.8	7.0	3.8	5.4	8.0	4.0	5.8
9	19.8	17.0	18.2	14.5	9.8	12.2	7.1	5.1	6.0	10.4	6.0	8.0
10	21.4	17.5	19.3	17.3	12.9	15.2	6.7	5.0	5.9	10.6	8.1	9.5
11	21.1	19.2	20.0	18.6	17.0	17.6	6.8	5.7	6.3	8.1	5.3	6.6
12	23.6	18.9	21.2	17.3	15.1	16.4	9.0	6.8	7.7	5.8	3.0	4.5
13	21.9	19.8	20.7	15.2	12.0	14.0	7.7	6.7	7.3	5.6	3.3	4.3
14	19.8	16.9	18.6	13.2	9.9	11.4	8.9	7.0	7.7	6.7	2.8	4.6
15	16.9	14.7	15.5	13.4	9.2	11.3	8.3	5.2	6.6	6.0	3.2	4.6
16	17.7	14.5	15.8	13.7	12.5	13.1	9.3	5.0	6.8	5.7	2.8	4.1
17	18.0	14.6	16.0	13.3	11.3	12.9	8.6	6.2	7.4	6.0	2.9	4.5
18	16.8	12.8	14.9	12.0	9.0	10.2	8.4	6.7	7.6	3.7	0.9	2.2
19	16.8	12.5	14.9	11.2	7.8	9.4	9.7	7.7	8.6	3.9	0.3	1.9
20	17.4	14.1	15.9	12.7	8.5	10.5	12.8	9.6	11.5	6.4	1.4	3.7
21	18.2	16.1	17.1	13.6	10.8	12.0	9.6	7.0	8.2	7.1	4.6	6.0
22	16.1	14.8	15.2	11.7	8.6	10.7	10.2	6.1	7.9	7.4	4.8	6.0
23	17.5	14.4	15.9	9.9	6.7	8.3	9.7	6.5	8.1	5.6	0.6	2.5
24	16.5	15.0	15.9	10.9	6.5	8.6	8.2	6.8	7.6	2.7	-0.2	0.7
25	15.7	14.7	15.0	11.2	7.4	9.4	8.6	6.6	7.7	4.2	-0.1	1.8
26	17.2	14.3	15.7	10.9	7.4	9.3	7.3	5.0	6.1	5.6	1.8	3.5
27	18.8	15.6	17.2	9.9	7.1	8.9	7.3	4.0	5.4	4.3	1.7	3.1
28	17.9	16.6	17.2	7.6	5.1	6.4	7.4	3.8	5.3	5.4	1.3	3.3
29	16.6	14.0	15.2	7.4	3.5	5.6	9.1	4.7	6.5	7.0	3.8	5.5
30	14.1	13.0	13.7	9.6	6.4	7.8	9.0	5.6	7.1	7.1	5.0	6.3
31	---	---	---	---	---	---	10.3	6.9	8.5	6.1	4.8	5.5
MONTH	---	---	---	---	---	---	12.8	2.8	6.8	13.4	-0.2	5.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.2	5.5	6.9	9.3	7.8	8.5	17.5	8.6	12.4	25.1	19.1	21.5
2	10.7	5.2	7.5	10.8	8.4	9.2	21.0	12.1	15.8	27.1	18.9	21.8
3	12.1	7.1	9.3	12.8	7.3	9.6	22.7	13.9	17.5	23.9	18.0	20.5
4	13.6	9.9	11.5	13.7	7.9	10.5	20.8	15.2	17.8	19.9	17.2	18.8
5	10.9	6.8	8.7	13.3	11.0	12.0	18.5	16.2	17.1	17.2	15.8	16.3
6	8.0	6.2	7.1	12.5	11.7	12.2	21.5	14.2	17.3	18.6	16.2	17.6
7	7.4	5.4	6.3	12.1	9.1	10.7	17.2	11.6	12.7	21.7	17.4	19.2
8	8.6	4.6	6.2	14.4	7.6	10.4	11.6	10.5	11.3	26.7	18.3	21.9
9	9.5	5.2	6.8	17.1	10.3	13.1	10.7	9.4	10.1	26.6	20.4	23.2
10	8.0	5.9	6.8	16.8	10.5	13.1	9.9	8.2	9.0	28.1	21.0	24.0
11	9.5	4.0	6.3	14.8	9.9	11.7	12.6	9.5	10.7	24.0	20.0	22.4
12	10.3	5.6	7.4	17.8	9.3	12.8	17.6	10.3	13.6	25.8	17.9	20.8
13	10.0	4.4	6.8	18.2	11.9	14.6	19.7	12.4	15.5	25.0	16.8	20.1
14	7.9	5.5	6.7	16.9	13.5	15.0	21.3	13.4	16.8	22.9	16.6	19.3
15	12.6	7.6	9.7	13.5	11.0	12.0	23.1	15.2	18.5	20.8	17.8	18.9
16	9.8	2.6	5.8	12.5	10.3	11.4	23.2	15.6	18.9	21.8	18.4	19.9
17	4.2	2.3	3.2	14.6	12.3	13.4	21.8	16.3	18.9	20.0	17.7	19.0
18	7.7	4.0	5.6	15.0	13.4	14.1	18.5	12.8	14.7	17.7	16.1	16.9
19	9.0	5.3	7.0	14.8	11.9	14.0	13.6	12.3	13.0	16.5	15.4	15.9
20	11.3	7.8	9.0	11.9	9.4	10.3	16.1	13.3	14.3	22.8	15.1	18.5
21	9.7	7.9	8.8	16.6	10.6	13.1	16.2	14.9	15.6	20.0	17.9	18.8
22	10.7	9.1	9.4	18.7	12.1	14.8	20.2	15.3	17.1	18.4	17.3	17.8
23	13.2	9.5	10.8	17.8	12.3	14.8	21.0	13.0	16.4	18.1	16.9	17.5
24	13.8	7.3	10.1	19.7	12.6	15.5	19.6	13.2	16.1	19.8	17.0	18.0
25	12.0	8.8	10.3	20.2	12.5	15.8	16.0	15.2	15.6	20.0	18.4	19.2
26	9.8	6.9	8.4	21.1	14.4	17.1	---	---	---	22.2	18.4	19.7
27	6.9	5.5	5.9	20.4	14.7	17.1	---	---	---	19.7	17.9	18.6
28	9.3	5.7	7.1	18.9	14.6	16.9	---	---	---	21.9	16.8	19.1
29	---	---	---	22.5	16.9	18.9	25.2	16.7	20.4	22.1	17.5	19.4
30	---	---	---	18.4	10.5	13.0	25.6	18.2	21.4	---	---	---
31	---	---	---	14.2	8.4	10.9	---	---	---	22.1	17.7	19.6
MONTH	13.8	2.3	7.7	22.5	7.3	13.1	---	---	---	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT 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	24.3	18.0	20.5	24.0	21.5	23.0	27.4	23.4	25.0	---	---	---
2	24.4	16.5	19.9	22.6	20.7	21.7	27.0	23.2	24.7	---	---	---
3	20.3	18.1	19.3	26.7	20.9	23.4	28.4	23.5	25.2	29.9	23.7	26.1
4	23.2	19.2	20.9	30.0	21.5	25.1	28.0	22.6	24.7	27.0	23.9	25.2
5	26.0	19.2	21.9	30.2	23.2	25.9	26.5	22.0	23.7	27.9	22.1	24.5
6	25.4	18.7	21.5	29.5	23.4	25.8	27.2	23.0	24.7	23.5	20.6	22.1
7	22.0	21.0	21.5	29.2	23.5	25.6	28.7	22.8	24.8	23.3	19.8	21.3
8	22.6	20.4	21.3	31.7	23.3	26.8	28.2	22.8	24.9	23.9	20.3	21.9
9	24.8	20.4	22.3	30.8	24.5	26.8	29.0	23.0	25.4	26.1	20.3	22.6
10	26.4	20.0	22.7	29.4	23.5	25.8	25.8	22.9	24.2	25.7	19.8	22.0
11	26.7	20.4	23.1	30.1	23.3	25.6	28.4	22.0	24.7	25.5	18.6	21.2
12	---	---	---	30.9	22.6	26.2	28.9	23.1	25.3	24.7	18.7	21.0
13	---	---	---	26.1	22.1	23.5	29.4	23.4	25.7	27.5	18.6	22.2
14	---	---	---	25.9	22.4	23.8	28.8	23.6	25.9	27.3	20.3	23.2
15	---	---	---	28.3	22.0	24.6	30.2	24.4	26.4	27.3	20.7	23.5
16	---	---	---	30.8	22.8	26.1	26.5	24.2	25.3	26.7	20.7	23.0
17	23.7	22.0	22.7	27.7	23.4	25.4	28.7	23.3	25.3	25.4	18.4	21.3
18	24.1	21.8	22.6	29.9	23.3	25.9	29.8	23.2	25.9	21.0	18.4	19.6
19	24.6	21.6	23.0	28.8	23.4	25.3	29.2	23.8	25.7	26.4	18.0	21.4
20	26.4	21.7	23.5	28.9	22.9	25.3	29.9	23.2	25.8	26.9	18.6	22.1
21	26.2	19.3	22.1	29.3	23.6	26.0	30.5	23.3	26.3	25.9	19.3	22.2
22	27.0	18.6	22.2	29.3	23.4	25.9	30.6	23.8	25.9	23.9	20.6	22.1
23	28.0	19.5	23.1	24.4	22.6	23.6	31.1	23.1	26.3	26.1	21.0	23.0
24	28.3	20.2	23.8	29.0	21.3	24.5	29.8	24.2	26.2	25.4	18.7	21.4
25	29.4	20.9	24.5	29.3	21.6	24.9	29.4	22.7	25.6	25.8	18.4	21.5
26	29.3	21.7	25.0	29.1	22.5	25.2	31.3	23.4	26.5	25.2	18.8	21.5
27	28.8	22.4	25.1	30.8	23.3	26.1	32.0	24.0	27.3	26.2	19.2	22.2
28	24.2	22.2	23.1	31.9	23.8	27.1	31.9	24.9	27.7	25.2	19.0	21.8
29	28.9	21.2	24.4	29.7	24.1	25.7	---	---	---	21.8	16.0	18.5
30	28.7	22.8	25.2	27.0	23.7	25.1	---	---	---	21.1	14.3	17.2
31	---	---	---	27.6	23.4	25.1	---	---	---	---	---	---
MONTH	---	---	---	31.9	20.7	25.2	---	---	---	---	---	---