

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to September 2004.

pH: April 1999 to September 2002.

WATER TEMPERATURE: April 1999 to September 2004.

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 Little Sugar 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	2560, April 24, 2000	16, March 20, 2003
pH, standard units	11.8, April 24, 2000	5.9, April 27, 1999
WATER TEMPERATURE, °C	32.0, July 30, 2002	2.1, February 26, 2004
DISSOLVED OXYGEN, mg/L	13.0, June 23, 1999	1.5, May 30, 2002
DISSOLVED OXYGEN, PERCENT SATURATION,%	159, June 26, 2000, July 16, 2001	18, May 30, 2002

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

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2540, January 28	19, September 7
WATER TEMPERATURE, °C	31.1, July 9	2.1, February 26

SANTEE RIVER BASIN

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	489	366	462	452	383	432	408	333	372	353	338	345
2	494	400	472	432	360	404	455	360	423	344	329	337
3	506	411	487	448	369	405	460	411	441	344	331	340
4	495	416	470	461	415	443	466	298	409	343	327	338
5	479	413	451	473	403	455	399	309	374	348	242	318
6	443	378	417	481	415	456	423	374	408	389	267	339
7	470	409	445	496	436	474	425	385	411	405	357	396
8	477	163	350	495	335	414	408	328	387	413	384	403
9	393	250	328	417	347	390	457	334	432	442	389	409
10	428	362	407	469	351	427	468	169	309	722	442	590
11	409	108	216	482	396	458	316	189	263	492	438	458
12	394	287	345	501	396	476	371	316	345	461	421	434
13	427	302	389	514	408	497	389	228	369	482	439	467
14	451	354	435	519	427	500	248	168	202	497	439	470
15	474	378	452	513	457	491	318	247	282	471	414	443
16	485	377	461	474	405	441	359	318	340	460	421	448
17	473	367	446	453	377	426	366	234	301	469	398	433
18	465	397	441	498	429	473	349	293	325	406	275	328
19	466	386	439	484	187	324	353	341	349	424	314	361
20	471	362	422	419	299	373	364	345	355	454	359	432
21	477	426	452	455	393	431	363	346	353	463	399	444
22	458	386	429	469	412	453	348	324	335	465	370	446
23	462	419	448	491	427	469	353	327	340	474	388	450
24	487	429	466	468	353	433	358	344	351	475	407	441
25	498	434	473	453	331	431	350	328	339	442	363	400
26	469	373	418	478	376	442	336	317	326	1,080	439	757
27	435	342	391	435	374	411	333	318	327	2,310	1,060	1,720
28	450	154	360	395	315	361	333	319	328	2,540	1,180	1,710
29	334	105	220	375	315	342	329	318	324	1,260	796	1,020
30	409	240	370	376	302	356	347	324	336	796	668	729
31	441	317	417	---	---	---	352	336	346	668	568	628
MONTH	506	105	412	519	187	430	468	168	348	2,540	242	543
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	568	479	523	305	228	272	320	153	237	453	204	313
2	479	457	465	352	238	294	382	320	351	248	108	186
3	538	371	413	405	348	385	396	354	380	341	162	250
4	450	415	429	440	357	396	398	357	380	398	288	355
5	469	450	463	383	346	372	377	341	362	430	358	400
6	468	132	321	380	348	371	420	364	394	458	402	434
7	322	160	269	388	347	378	455	407	436	467	387	433
8	361	322	346	393	358	384	476	422	456	469	413	435
9	388	352	366	398	360	386	477	428	451	415	362	381
10	419	384	399	451	374	413	429	371	394	418	343	372
11	454	419	440	472	404	445	387	347	365	448	387	429
12	466	186	311	450	391	431	347	208	278	458	275	401
13	391	304	355	---	---	---	339	111	243	430	350	405
14	410	283	365	430	375	408	378	236	319	454	387	438
15	359	242	304	431	381	404	417	321	389	479	407	447
16	371	267	314	---	---	---	454	362	429	461	354	409
17	406	366	391	467	414	445	445	395	426	383	150	309
18	423	390	412	484	438	469	426	377	400	426	289	394
19	446	410	430	---	---	---	408	349	378	427	286	367
20	461	426	451	442	375	426	453	372	422	446	404	426
21	490	452	471	412	266	337	484	420	456	460	431	448
22	457	406	428	411	325	378	487	424	455	462	425	442
23	415	385	400	459	387	431	448	395	425	431	397	412
24	474	412	438	470	410	450	449	407	432	436	368	393
25	482	389	452	473	415	444	449	330	405	471	427	448
26	497	350	406	445	405	431	419	344	396	481	456	472
27	2,060	471	1,320	449	395	433	492	335	426	487	451	474
28	1,190	531	899	440	388	413	511	425	487	498	397	473
29	534	299	399	436	358	395	512	432	491	422	393	410
30	---	---	---	486	320	420	492	423	460	423	381	402
31	---	---	---	373	124	254	---	---	---	402	217	318
MONTH	2,060	132	448	---	---	---	512	111	397	498	108	396

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.5	19.0	22.6	22.3	18.4	20.6	17.2	12.8	15.4	14.1	10.8	12.8
2	24.1	19.9	22.4	22.4	18.4	20.6	17.0	12.2	15.1	14.4	11.6	13.3
3	23.3	18.2	21.5	22.5	19.0	20.9	15.5	13.1	14.8	16.0	11.7	14.3
4	23.6	19.1	21.9	22.8	19.9	21.5	15.3	9.5	13.4	17.2	14.5	16.0
5	24.2	20.4	22.4	23.7	21.1	22.6	13.9	9.3	11.7	17.3	15.5	16.4
6	23.8	21.2	22.7	24.1	21.9	23.0	15.3	12.2	14.1	15.8	13.0	14.8
7	24.2	21.9	23.1	24.0	22.3	23.2	15.2	11.7	13.7	13.9	8.8	12.7
8	23.1	19.8	21.6	22.6	19.0	20.4	15.3	9.0	13.2	13.6	9.6	12.4
9	23.3	20.4	22.0	20.0	17.3	18.8	15.5	9.9	14.2	13.3	10.2	11.5
10	23.6	21.9	22.9	19.5	14.2	18.1	14.9	9.6	12.5	12.7	9.3	11.2
11	22.6	18.7	20.6	20.2	14.4	18.5	14.4	10.6	13.2	12.6	8.6	10.9
12	24.1	20.8	22.5	21.6	16.3	20.0	15.0	9.6	13.5	13.4	9.1	11.6
13	24.1	20.5	23.0	20.9	18.0	19.8	14.5	5.8	12.8	14.1	10.3	12.5
14	23.6	22.2	23.2	19.4	14.5	18.0	9.6	5.5	7.5	14.2	10.9	12.8
15	23.6	19.3	22.0	18.9	16.4	18.0	12.7	8.6	11.0	14.8	11.6	13.3
16	23.2	17.8	21.3	19.7	16.1	18.2	14.0	10.4	12.5	14.4	11.0	13.0
17	22.7	18.1	21.3	20.5	17.7	19.3	13.8	9.6	11.8	14.1	10.5	12.9
18	23.0	19.8	21.5	21.1	18.2	20.0	13.7	9.6	12.3	13.5	9.4	11.8
19	23.0	18.4	21.1	20.9	17.1	18.9	13.4	11.4	12.6	14.0	10.8	12.4
20	23.1	18.9	21.3	19.8	16.4	18.3	13.0	9.7	11.7	13.5	8.1	11.8
21	23.3	20.0	21.9	20.1	16.5	18.5	12.6	9.0	11.1	13.2	8.8	11.7
22	23.2	20.1	21.7	20.2	16.4	18.6	12.9	6.8	11.3	13.8	7.7	12.1
23	21.5	19.0	20.6	20.2	16.7	18.6	13.9	7.8	12.4	13.8	8.9	12.3
24	22.0	18.6	20.5	19.7	15.7	18.5	15.5	13.2	14.2	14.3	9.4	12.4
25	22.1	18.9	20.6	18.1	12.5	16.7	13.7	10.7	12.4	13.1	6.5	10.3
26	21.4	19.7	20.5	18.4	12.4	16.7	13.0	9.3	11.4	9.6	6.4	8.2
27	21.8	19.7	21.0	18.4	15.3	17.3	13.2	9.1	11.5	10.0	6.7	8.5
28	21.3	15.9	19.5	19.0	15.8	17.7	13.6	9.5	11.9	10.5	6.1	8.0
29	19.2	14.5	17.2	16.5	12.8	14.9	13.9	10.2	12.4	11.8	6.7	9.4
30	21.1	15.1	19.3	16.6	11.8	14.8	15.4	12.7	14.0	12.5	8.8	10.9
31	21.9	16.9	20.3	---	---	---	14.4	10.8	12.8	12.6	8.7	11.0
MONTH	24.5	14.5	21.4	24.1	11.8	19.0	17.2	5.5	12.7	17.3	6.1	12.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.1	7.9	10.4	9.8	7.1	8.6	16.4	11.9	14.1	22.7	20.2	21.3
2	11.3	7.8	10.4	13.2	8.9	11.2	16.8	13.9	15.2	22.5	20.1	21.4
3	9.8	4.7	7.7	16.3	12.4	14.3	18.8	13.2	16.1	21.6	19.1	20.3
4	12.0	6.9	10.3	18.0	14.0	16.0	19.3	14.6	16.7	21.8	16.9	19.5
5	11.6	8.8	10.8	18.4	15.3	16.9	18.8	13.6	16.2	23.3	18.3	20.8
6	11.0	5.4	7.5	18.7	16.6	17.4	19.4	14.1	16.7	24.5	19.9	22.2
7	10.7	6.4	8.9	19.0	15.0	16.6	20.1	15.1	17.8	25.6	21.0	23.2
8	11.1	7.3	9.4	16.7	13.1	14.6	19.4	16.9	18.2	25.9	21.7	23.6
9	10.7	8.4	9.8	13.4	11.8	12.6	21.7	16.4	18.9	25.8	22.3	23.7
10	12.2	9.0	10.8	13.8	10.7	12.3	21.5	16.9	19.0	25.8	21.8	23.5
11	13.2	10.4	12.0	15.2	10.2	12.6	20.0	17.8	18.8	25.7	21.8	23.7
12	12.8	6.5	9.1	16.4	11.7	13.8	17.9	14.6	15.4	25.0	22.6	23.7
13	12.6	8.4	10.6	---	---	---	16.2	14.1	15.4	25.5	22.4	23.8
14	12.4	9.8	11.2	17.1	12.2	14.7	16.8	14.2	15.8	26.0	22.4	24.1
15	11.9	8.9	10.4	16.6	14.4	15.6	19.7	13.1	16.9	26.2	22.6	24.2
16	12.0	8.3	10	---	---	---	21.0	15.4	18.4	25.3	22.6	23.9
17	10.9	7.7	10	17.8	14.5	16.2	22.0	17.1	19.4	25.6	22.0	23.8
18	13.0	7.3	11.0	16.2	13.6	15.2	22.8	18.1	20.3	26.2	22.8	24.4
19	14.0	9.3	11.9	---	---	---	23.0	18.9	20.7	26.2	23.0	24.4
20	14.8	9.8	13.0	17.9	13.9	16.3	22.9	19.6	21.2	27.7	23.5	25.4
21	16.7	13.5	14.7	18.9	15.0	16.4	22.9	19.9	21.2	27.4	24.2	25.8
22	15.4	11.6	13.6	17.1	12.6	14.8	23.4	19.6	21.4	28.3	24.6	26.2
23	13.5	11.5	12.7	17.3	11.9	14.6	24.0	20.0	21.9	27.7	24.5	25.8
24	14.8	12.0	13.4	18.1	12.7	15.5	24.8	20.6	22.5	27.6	23.9	25.6
25	15.0	11.6	13.4	19.4	14.4	16.9	24.4	21.0	22.5	28.6	24.4	26.3
26	11.7	2.1	7.8	20.7	15.7	18.1	21.6	19.8	21.1	28.0	25.1	26.2
27	5.3	2.6	4.2	21.0	16.8	18.9	21.7	18.0	20.1	27.8	24.3	25.9
28	7.9	3.8	5.7	21.3	17.7	19.4	22.6	17.3	20.2	28.0	24.4	26.0
29	9.4	6.0	7.5	20.3	16.6	18.4	23.3	17.9	20.8	27.6	24.3	25.8
30	---	---	---	18.0	14.6	16.3	23.1	19.4	21.4	27.3	24.6	25.7
31	---	---	---	15.8	12.5	14.1	---	---	---	25.3	23.3	24.6
MONTH	16.7	2.1	10.3	---	---	---	24.8	11.9	18.8	28.6	16.9	24.0

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.1	23.1	25.0	28.3	25.5	26.8	30.0	26.8	28.1	28.4	25.7	26.8
2	28.0	23.3	25.6	27.6	25.7	26.5	29.2	26.8	27.9	28.3	26.0	27.0
3	28.2	23.8	26.0	26.7	25.1	26.0	29.8	27.0	28.2	28.4	25.2	26.7
4	26.7	24.7	25.6	28.4	25.0	26.5	30.1	26.7	28.4	28.1	25.2	26.5
5	27.5	23.5	25.4	29.2	25.3	27.1	29.8	27.1	28.3	28.0	25.1	26.4
6	25.9	23.8	24.9	29.4	25.1	27.1	28.9	25.5	27.0	27.6	25.3	26.1
7	26.7	23.4	25.2	29.8	26.2	27.7	28.8	24.2	26.5	25.8	23.2	24.5
8	27.2	24.4	25.7	29.7	26.1	27.8	28.5	24.3	26.3	24.0	23.1	23.5
9	25.8	23.6	24.6	31.1	26.3	28.1	28.9	24.6	26.8	26.0	23.6	24.7
10	28.2	23.6	25.9	30.5	26.7	28.3	28.9	25.3	27.2	26.4	23.9	25.2
11	29.5	25.4	27.3	30.2	26.2	27.9	29.6	25.7	27.4	27.1	24.3	25.5
12	29.5	26.0	27.2	29.0	26.4	27.6	26.2	22.7	24.9	27.0	23.9	25.4
13	26.1	22.2	24.3	29.7	26.5	28.1	25.4	22.6	24.1	26.5	24.2	25.4
14	26.1	23.6	24.8	30.5	27.1	28.6	24.6	20.7	22.5	---	---	---
15	27.0	24.3	25.6	30.2	26.7	28.2	23.9	22.4	23.3	---	---	---
16	28.4	25.1	26.7	29.7	25.8	27.7	27.1	23.4	25.2	26.1	24.5	25.4
17	29.0	26.2	27.4	28.9	23.3	27.3	27.6	24.8	26.2	25.6	22.9	24.0
18	30.3	26.4	28.0	26.2	23.0	24.6	28.3	25.6	26.8	24.9	22.3	23.5
19	30.1	26.6	28.0	27.9	24.6	26.4	29.3	25.6	27.0	24.7	22.0	23.2
20	28.8	25.8	27.1	28.9	25.7	27.3	29.1	25.6	27.4	24.2	21.1	22.6
21	26.3	22.3	24.8	29.5	26.0	27.6	28.9	25.9	27.2	25.2	21.3	23.2
22	28.4	24.0	26.1	29.2	26.3	27.8	26.7	25.4	26.0	25.8	21.7	23.8
23	28.9	25.2	26.5	29.8	27.1	28.5	28.4	25.1	26.6	26.5	22.9	24.6
24	27.3	24.6	25.7	30.3	27.1	28.5	29.2	25.7	27.3	26.2	21.4	24.5
25	27.2	23.8	25.4	29.5	26.6	27.9	28.6	25.6	27.1	26.1	22.9	24.4
26	26.1	23.2	24.7	29.1	26.7	27.7	28.9	25.8	27.2	26.0	22.9	24.4
27	26.9	24.1	25.5	27.8	24.4	26.0	29.3	25.7	27.5	24.5	22.0	23.4
28	26.8	24.8	25.7	28.3	25.3	26.7	30.0	26.3	27.9	23.3	21.4	22.3
29	28.6	24.6	26.5	27.1	24.1	25.9	27.3	24.4	26.3	23.8	21.7	22.7
30	27.1	25.4	26.4	29.3	25.4	27.0	28.2	24.2	25.9	---	---	---
31	---	---	---	30.0	26.6	28.1	26.4	24.5	25.5	---	---	---
MONTH	30.3	22.2	25.9	31.1	23.0	27.3	30.1	20.7	26.6	---	---	---