

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE 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 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 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	2.5, January 30, 2000
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	2010, February 17	16, March 20
WATER TEMPERATURE, °C	29.7, August 27	3.2, December 5

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 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	583	404	539	513	398	482	459	389	432	379	262	322
2	613	440	573	492	410	471	454	360	421	371	312	342
3	637	476	607	501	412	475	504	392	457	376	227	288
4	614	483	568	523	397	482	494	367	456	401	316	365
5	565	465	533	---	---	---	553	104	189	411	335	389
6	541	466	511	---	---	---	294	195	255	415	308	392
7	540	424	509	---	---	---	355	293	321	451	322	416
8	671	488	604	463	381	433	395	349	370	429	320	409
9	656	562	617	508	424	478	434	395	413	433	388	418
10	658	558	615	494	416	470	461	434	451	456	396	433
11	624	23	168	470	102	270	461	126	231	444	394	426
12	416	186	331	269	82	143	404	275	342	439	385	421
13	---	---	---	314	180	246	425	32	183	435	354	415
14	---	---	---	393	270	356	286	61	207	470	379	442
15	---	---	---	437	322	413	349	247	319	477	410	454
16	---	---	---	445	93	264	373	313	353	474	369	446
17	---	---	---	216	110	166	393	336	380	504	337	418
18	---	---	---	327	216	272	---	---	---	484	375	451
19	515	424	491	417	313	366	423	382	410	424	344	405
20	522	421	488	440	344	414	421	113	220	420	362	397
21	520	225	421	458	391	434	343	245	311	430	318	396
22	425	144	283	480	395	450	379	314	355	454	360	423
23	552	368	474	509	434	483	384	305	368	1,270	352	498
24	572	465	538	489	416	457	383	29	206	1,400	603	832
25	624	492	549	502	362	459	199	81	133	790	589	683
26	492	405	451	559	401	520	278	191	236	666	552	605
27	468	402	445	527	398	502	320	278	300	566	500	531
28	451	128	330	506	420	467	363	302	342	509	470	500
29	349	180	269	452	400	427	370	316	354	663	465	518
30	537	265	395	461	382	431	358	317	348	753	175	330
31	518	391	472	---	---	---	377	324	364	337	204	282
MONTH	---	---	---	---	---	---	---	---	---	1,400	175	440
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	378	337	363	333	123	279	347	262	315	415	334	396
2	396	360	379	259	133	207	366	306	344	427	273	381
3	411	352	398	342	256	296	392	324	374	352	249	317
4	423	259	348	386	282	358	396	321	379	336	260	310
5	416	281	386	385	255	320	397	206	313	343	297	330
6	444	179	388	353	70	166	348	202	318	324	68	114
7	266	121	195	304	226	270	---	---	---	242	117	188
8	345	255	312	324	287	313	---	---	---	274	218	249
9	385	315	360	358	302	333	---	---	---	299	271	289
10	373	196	258	373	329	356	---	---	---	306	278	293
11	369	274	333	393	333	371	---	---	---	286	258	273
12	430	327	405	390	332	377	---	---	---	317	247	279
13	436	378	419	392	342	377	---	---	---	331	296	323
14	443	281	387	388	343	375	---	---	---	347	293	338
15	343	256	313	397	106	299	364	304	346	359	39	291
16	590	264	328	221	49	138	379	336	367	157	78	127
17	2,010	590	1,160	265	203	241	403	356	390	186	152	172
18	830	382	584	262	204	236	404	65	172	189	107	163
19	398	331	385	299	156	272	199	104	155	---	---	---
20	442	337	402	167	16	70	261	199	236	406	305	380
21	447	361	421	272	167	217	275	250	266	407	28	279
22	423	110	249	292	252	276	362	249	288	---	---	---
23	307	183	249	311	277	299	383	340	364	---	---	---
24	368	286	334	332	291	315	383	344	369	---	---	---
25	417	339	388	355	313	342	386	220	295	---	---	---
26	427	223	374	368	336	356	280	149	241	---	---	---
27	246	146	189	383	339	364	314	235	291	---	---	---
28	302	186	251	411	364	386	357	276	328	---	---	---
29	---	---	---	411	336	388	385	321	366	---	---	---
30	---	---	---	408	94	185	394	328	376	---	---	---
31	---	---	---	294	170	239	---	---	---	---	---	---
MONTH	2,010	110	377	411	16	291	---	---	---	---	---	---

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

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

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	353	239	337	373	305	342	266	161	219			
2	---	---	---	239	75	149	379	349	364	323	234	290			
3	---	---	---	342	204	270	355	79	255	364	282	330			
4	---	---	---	364	311	341	297	49	213	365	193	294			
5	---	---	---	370	340	362	211	57	140	403	236	333			
6	---	---	---	370	335	354	306	121	230	420	341	404			
7	---	---	---	386	318	355	362	274	325	435	354	412			
8	---	---	---	428	364	395	339	190	282	452	380	420			
9	---	---	---	436	180	371	319	158	248	453	399	432			
10	---	---	---	382	278	340	330	164	284	449	334	429			
11	---	---	---	390	115	293	372	297	332	461	408	436			
12	---	---	---	317	144	258	403	222	375	462	408	446			
13	332	202	277	203	56	127	378	208	304	476	417	454			
14	359	316	341	305	110	212	390	80	316	451	389	429			
15	361	327	345	369	278	330	333	158	260	468	356	426			
16	353	75	277	398	358	376	343	120	265	480	369	458			
17	246	61	167	398	68	241	354	276	316	481	416	458			
18	208	72	135	371	305	338	366	234	308	487	402	467			
19	247	130	190	375	66	290	426	343	403	489	379	467			
20	322	215	265	298	156	242	421	349	408	485	432	461			
21	368	311	342	378	275	328	422	366	411	452	391	433			
22	369	326	354	379	253	326	437	90	356	429	102	355			
23	379	319	351	392	301	353	359	261	325	354	89	224			
24	389	354	378	396	300	382	381	331	365	460	302	400			
25	414	351	400	407	323	394	406	358	383	481	412	461			
26	428	369	414	410	185	339	425	383	406	471	404	441			
27	440	369	410	321	208	285	452	379	429	497	317	457			
28	382	261	305	372	290	330	444	380	413	394	202	336			
29	352	301	335	393	84	289	402	351	376	439	292	386			
30	358	319	346	297	57	200	393	60	308	461	331	436			
31	---	---	---	324	152	252	247	90	182	---	---	---			
MONTH	---	---	---	436	56	305	452	49	320	497	89	400			

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE 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	28.1	24.1	26.6	20.9	16.7	19.6	15.7	12.2	14.4	14.4	12.7	14.0
2	28.5	24.5	26.9	20.4	16.0	18.9	15.3	10.2	14.0	14.6	13.3	14.0
3	28.5	24.9	27.2	20.4	16.4	19.0	17.0	11.2	14.9	14.3	11.9	13.1
4	28.4	25.3	27.3	20.1	16.7	19.3	15.2	5.8	12.8	13.5	10.8	12.4
5	28.7	25.8	27.4	20.1	13.1	17.2	7.3	3.2	5.4	13.4	9.9	12.2
6	28.0	25.4	26.8	16.2	12.9	14.7	10.5	7.3	9.1	13.2	9.1	12.3
7	27.9	24.6	26.4	17.7	14.1	16.3	11.9	8.9	10.5	12.9	7.3	11.6
8	25.8	24.2	25.2	18.6	15.0	17.3	12.4	9.0	11.3	13.3	7.5	12.0
9	25.9	23.5	25.0	19.7	15.9	18.3	13.2	9.7	12.3	14.7	11.2	13.3
10	26.6	23.9	25.4	21.0	18.1	19.8	13.3	10.2	12.7	15.5	13.2	14.4
11	25.6	19.4	21.3	20.9	17.7	19.3	12.9	6.2	8.9	14.0	11.0	12.8
12	25.0	20.2	23.4	19.3	16.7	17.4	13.3	10.7	12.1	12.6	9.3	11.5
13	24.5	20.6	22.5	17.1	15.5	16.5	13.2	7.1	9.7	12.1	8.1	11.2
14	22.8	20.6	21.8	17.3	12.7	16.2	11.2	9.2	10.2	13.1	8.4	11.6
15	22.1	15.5	18.7	18.1	12.8	16.9	12.0	8.8	10.7	13.0	9.7	11.7
16	19.2	15.0	17.2	18.3	13.9	15.8	13.0	8.9	11.6	12.8	9.4	11.3
17	21.6	17.9	19.9	15.2	14.0	14.5	13.5	10.3	12.6	11.5	8.3	9.9
18	22.2	17.9	20.8	15.0	12.8	14.1	---	---	---	11.3	8.0	9.7
19	22.7	18.3	21.2	16.6	11.9	14.8	14.6	12.6	13.8	11.4	6.1	9.9
20	22.8	19.3	21.7	17.5	12.1	16.1	14.7	10.8	13.1	12.1	7.2	10.6
21	23.2	18.0	21.2	18.3	16.0	17.3	13.3	9.9	12.3	13.1	8.9	11.6
22	20.3	16.3	18.4	17.9	14.9	16.8	13.9	10.3	12.4	13.0	8.8	11.4
23	22.7	19.0	21.3	17.1	13.8	15.8	13.8	9.8	12.8	11.9	4.5	8.2
24	22.6	20.3	21.7	17.2	13.7	15.7	13.4	7.1	10	8.9	5.2	7.0
25	22.7	20.4	21.5	17.7	12.3	16.3	9.8	7.5	8.8	10.1	5.5	8.3
26	21.8	18.7	20.6	17.8	12.3	16.5	10.1	8.0	9.0	10.7	6.6	9.0
27	23.3	20.8	22.2	17.5	13.3	16.3	10.6	8.1	9.5	10.0	6.4	8.9
28	22.5	18.0	20.5	16.4	13.0	14.9	11.4	7.6	10.1	11.2	6.8	9.6
29	18.8	17.8	18.2	15.4	11.9	14.1	12.6	8.0	11.1	11.6	8.7	10.4
30	21.0	16.3	18.5	16.6	12.5	14.9	12.8	9.3	11.7	10.2	6.2	7.6
31	20.5	16.8	19.2	---	---	---	13.9	10.1	12.6	9.2	6.4	8.0
MONTH	28.7	15.0	22.5	21.0	11.9	16.7	---	---	---	15.5	4.5	11.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.8	8.6	10.2	11.8	9.2	10.7	17.2	10.8	14.4	23.2	20.2	21.7
2	12.8	9.0	10.9	11.9	9.2	10.6	19.5	13.8	17.0	24.0	20.2	21.8
3	13.9	9.2	12.4	13.4	9.8	11.6	20.6	15.6	18.3	22.3	19.4	20.8
4	14.0	12.5	13.4	14.5	9.2	12.7	20.0	16.5	18.6	20.5	19.2	19.9
5	13.4	9.3	12.2	14.5	11.9	13.6	18.7	17.3	18.1	19.2	17.9	18.4
6	12.5	7.4	11.3	14.3	12.1	12.9	20.0	16.1	18.0	18.8	17.2	18.1
7	9.7	6.1	8.1	13.2	11.0	12.4	17.3	12.7	13.5	20.9	18.2	19.6
8	11.2	7.6	9.7	14.6	9.9	12.3	13.3	11.0	12.6	24.0	19.5	21.7
9	12.3	8.4	10.7	16.4	12.0	14.3	12.3	10.0	11.0	24.5	21.4	23.0
10	11.4	7.8	9.4	16.3	12.9	14.6	10.2	8.2	9.3	25.1	21.9	23.3
11	12.1	7.4	10.3	15.6	12.0	14.0	13.4	9.9	11.7	23.0	21.0	22.3
12	13.3	8.4	11.7	17.1	11.6	14.8	17.2	11.8	14.6	23.0	19.4	21.2
13	13.0	9.4	11.5	17.7	14.1	16.0	18.7	13.7	16.3	23.1	18.9	21.2
14	12.1	9.4	11.0	17.4	15.5	16.5	19.9	14.8	17.4	22.2	18.7	20.8
15	14.1	9.6	12.0	15.9	11.7	14.0	20.8	16.5	18.7	21.8	17.1	20.3
16	13.0	5.5	9.4	13.7	10.5	12.2	21.1	17.2	19.2	21.7	18.4	20.1
17	8.4	5.2	6.4	15.4	13.4	14.4	20.7	17.8	19.4	21.1	19.6	20.5
18	8.5	6.1	7.6	15.7	14.1	15.0	19.5	13.2	15.4	19.8	17.2	18.7
19	11.3	6.7	9.7	15.9	13.2	15.2	14.5	13.0	13.7	18.4	16.9	17.8
20	13.1	9.0	11.7	13.3	9.3	10.6	16.3	14.2	15.2	21.6	17.3	19.8
21	13.0	9.8	12.2	16.0	11.5	13.7	16.8	15.8	16.4	20.9	18.8	20.2
22	12.6	9.3	10.8	17.5	13.3	15.5	19.5	16.5	17.7	18.8	17.8	18.1
23	13.4	10.8	11.9	17.5	13.8	15.7	19.6	15.3	17.5	18.9	17.6	18.2
24	14.2	9.6	12.3	18.5	14.2	16.3	19.1	15.6	17.6	19.7	18.2	18.9
25	13.9	11.6	13.0	19.0	14.2	16.8	18.0	16.4	17.0	20.5	18.8	19.6
26	13.3	8.3	11.6	19.8	16.0	17.8	19.8	16.8	17.9	21.6	19.1	20.3
27	8.4	6.6	7.6	19.3	16.2	17.8	21.0	17.0	18.9	20.0	18.6	19.3
28	11.4	7.3	9.4	18.8	16.4	17.9	21.6	17.1	19.6	21.5	18.0	19.8
29	---	---	---	20.8	17.8	19.2	22.5	18.2	20.6	21.6	18.7	20.2
30	---	---	---	19.2	12.0	14.2	23.2	19.6	21.5	22.7	18.3	20.6
31	---	---	---	15.0	10.2	12.8	---	---	---	22.2	19.1	20.6
MONTH	14.2	5.2	10.7	20.8	9.2	14.4	23.2	8.2	16.6	25.1	16.9	20.2

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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	22.7	19.4	21.0	24.9	23.0	24.1	27.2	25.4	26.2	28.0	24.9	26.4
2	22.7	18.7	20.8	23.3	20.9	22.4	26.9	25.4	26.1	28.3	25.2	26.8
3	21.4	20.0	20.6	25.5	22.2	23.8	27.1	25.3	26.1	28.9	25.7	27.4
4	23.2	20.0	21.6	27.2	23.2	25.1	27.0	22.2	25.3	27.7	25.7	26.7
5	24.2	20.8	22.4	27.4	24.3	25.7	25.8	22.2	24.0	27.7	23.9	26.1
6	23.8	20.8	22.3	27.3	24.4	25.6	26.9	24.3	25.5	26.0	24.4	25.3
7	22.5	21.3	21.8	27.1	24.5	25.5	27.3	24.3	25.9	25.5	23.2	24.6
8	23.0	20.8	21.6	28.4	24.5	26.4	27.9	23.8	25.8	25.8	23.6	24.8
9	24.0	20.9	22.3	28.4	25.7	26.8	27.8	24.4	25.9	27.1	23.7	25.4
10	24.7	21.1	22.9	27.7	24.7	26.1	26.3	24.1	25.4	26.6	23.7	25.2
11	25.1	21.6	23.4	27.9	24.7	26.1	27.1	24.0	25.6	26.6	23.2	24.8
12	25.6	22.8	24.0	28.1	24.2	26.0	27.5	25.3	26.4	26.1	23.0	24.6
13	25.8	22.8	24.2	25.9	22.2	23.7	28.3	25.1	26.5	27.1	23.1	25.1
14	26.0	23.0	24.5	25.3	23.1	24.2	27.9	25.8	26.7	26.8	23.9	25.4
15	26.6	23.4	24.7	26.9	23.6	25.3	28.5	25.5	26.8	27.0	23.5	25.5
16	26.3	23.4	24.4	28.3	24.5	26.4	27.0	24.6	26.2	27.1	23.8	25.6
17	24.6	22.8	23.4	27.4	23.7	25.9	28.0	25.1	26.3	26.6	23.2	24.9
18	23.7	22.2	22.9	27.9	24.8	26.3	28.1	24.6	26.4	24.9	22.2	24.1
19	24.6	22.1	23.3	27.6	24.7	25.9	28.1	25.6	26.8	26.6	21.7	24.7
20	25.5	22.7	23.9	27.2	23.9	25.5	28.3	25.5	26.8	27.1	23.1	25.2
21	24.7	21.2	22.9	27.5	24.8	26.2	28.5	25.5	27.1	26.6	23.2	25.1
22	25.1	20.9	22.9	27.8	24.6	26.3	28.8	24.1	26.6	25.8	23.3	24.6
23	25.6	21.3	23.5	26.0	24.6	25.2	28.6	24.9	26.6	25.7	22.8	24.1
24	26.0	22.2	24.2	27.4	23.8	25.5	28.3	26.1	26.9	25.7	22.4	24.3
25	26.8	22.7	24.8	27.3	24.4	25.9	28.2	25.3	26.7	26.5	22.9	24.7
26	27.0	23.5	25.4	28.2	25.0	26.4	29.2	25.9	27.4	26.3	23.1	24.8
27	27.0	24.0	25.5	27.7	25.0	26.3	29.7	26.4	27.9	26.7	22.6	24.9
28	25.2	23.5	24.0	29.0	25.4	27.0	29.5	26.9	28.0	25.7	21.9	23.9
29	26.7	22.8	24.7	28.2	25.1	26.6	29.5	26.8	27.9	24.6	20.1	22.9
30	26.4	24.1	25.2	27.1	24.9	25.8	29.0	26.4	27.4	24.3	18.7	22.5
31	---	---	---	27.0	24.7	25.9	27.0	25.9	26.3	---	---	---
MONTH	27.0	18.7	23.3	29.0	20.9	25.6	29.7	22.2	26.4	28.9	18.7	25.0