

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC

LOCATION.--Lat 35°19'22", long 80°32'17", Cabarrus County, Hydrologic Unit 03040105, on left bank at end of maintenance road located within Rocky River Wastewater Treatment Facility, 0.40 mi above confluence with Irish Buffalo Creek, and 1.9 mi northeast of Rocky River.

DRAINAGE AREA.--278 mi².

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 500 ft above sea level (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A daily average of 7.8 ft³/s for the period April to September 2000, and 8.5 ft³/s for the current water year, of treated sewage effluent from the Mallard Creek Wastewater Treatment Plant was discharged into the river approximately 7 mi upstream of the gaging station. A daily average of approximately 4.0 ft³/s for the period April 2000 to September 2000, and 3.7 ft³/s for the current water year, of treated sewage effluent from the Mooresville Wastewater Treatment Plant was discharged into the river approximately 15 mi upstream of the gaging station. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for period April to September 2000 also occurred June 6, July 23, and Aug. 30. Minimum discharge for period of record and current water year also occurred Sept. 1, 3.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD APRIL TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e140	154	42	49	123	68
2	---	---	---	---	---	---	e120	124	45	41	116	236
3	---	---	---	---	---	---	e130	210	42	38	85	485
4	---	---	---	---	---	---	e200	172	42	35	839	663
5	---	---	---	---	---	---	e153	119	49	34	235	275
6	---	---	---	---	---	---	e126	102	87	35	90	106
7	---	---	---	---	---	---	e115	94	54	64	62	70
8	---	---	---	---	---	---	120	88	45	87	54	60
9	---	---	---	---	---	---	490	81	41	50	49	53
10	---	---	---	---	---	---	189	78	40	41	113	47
11	---	---	---	---	---	---	138	75	38	34	86	43
12	---	---	---	---	---	---	119	69	37	131	50	42
13	---	---	---	---	---	---	152	66	37	287	41	40
14	---	---	---	---	---	---	223	89	36	109	39	40
15	---	---	---	---	---	---	775	77	35	77	33	38
16	---	---	---	---	---	---	750	62	36	53	33	34
17	---	---	---	---	---	---	346	59	37	42	33	32
18	---	---	---	---	---	---	348	57	36	36	35	35
19	---	---	---	---	---	---	258	55	36	33	160	235
20	---	---	---	---	---	---	176	54	36	45	51	117
21	---	---	---	---	---	---	147	52	35	42	38	59
22	---	---	---	---	---	---	126	120	33	32	34	151
23	---	---	---	---	---	---	115	69	33	30	33	1760
24	---	---	---	---	---	---	108	57	30	57	33	491
25	---	---	---	---	---	---	192	59	29	71	38	345
26	---	---	---	---	---	---	187	62	44	62	37	443
27	---	---	---	---	---	---	132	53	44	43	32	131
28	---	---	---	---	---	---	248	48	39	35	32	89
29	---	---	---	---	---	---	346	50	165	49	30	71
30	---	---	---	---	---	---	204	55	65	42	29	59
31	---	---	---	---	---	---	---	48	---	32	32	---
TOTAL	---	---	---	---	---	---	6873	2558	1368	1816	2695	6318
MEAN	---	---	---	---	---	---	229	82.5	45.6	58.6	86.9	211
MAX	---	---	---	---	---	---	775	210	165	287	839	1760
MIN	---	---	---	---	---	---	108	48	29	30	29	32
CFSM	---	---	---	---	---	---	.82	.30	.16	.21	.31	.76
IN.	---	---	---	---	---	---	.92	.34	.18	.24	.36	.85

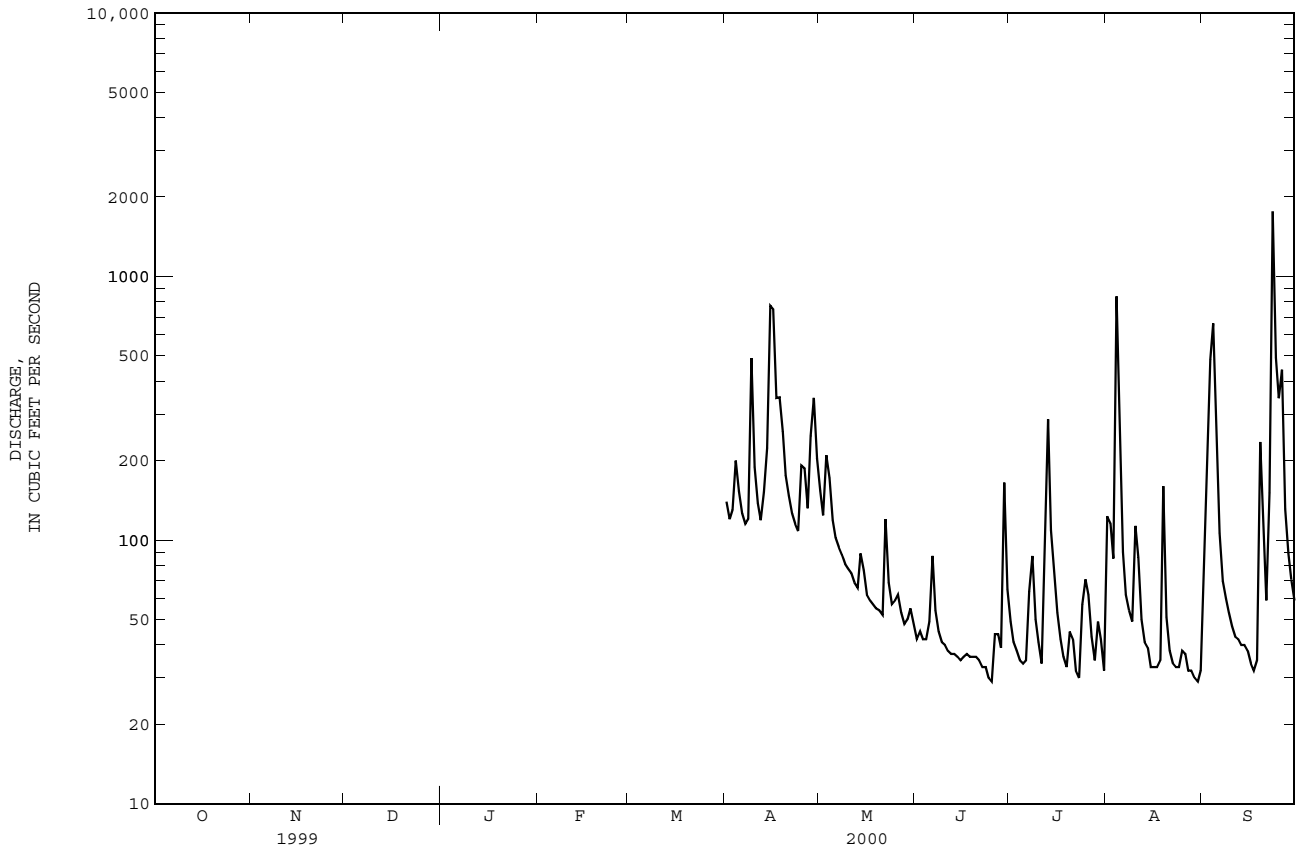
SUMMARY STATISTICS

FOR PERIOD APRIL TO SEPTEMBER 2000

MAXIMUM PEAK FLOW	2670	Sep 23
MAXIMUM PEAK STAGE	11.77	Sep 23
INSTANTANEOUS LOW FLOW	26*	Jun 25

e Estimated.
* See REMARKS.

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DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e53	35	55	e43	67	96	371	54	65	45	34	23
2	e51	34	51	e44	63	91	259	52	169	40	32	24
3	e45	34	51	e45	60	86	194	50	81	37	30	65
4	e43	34	50	e47	58	617	191	48	54	112	28	340
5	e43	36	48	e48	59	350	156	47	46	745	28	275
6	e43	38	49	e50	56	190	138	45	44	217	27	84
7	e43	36	50	e53	56	136	125	44	41	114	26	53
8	e42	37	50	56	56	111	117	42	41	70	26	43
9	e38	40	49	87	e59	101	110	43	51	70	25	36
10	e37	81	48	65	e60	92	101	44	42	60	31	40
11	e36	62	49	57	e65	86	96	42	39	50	326	34
12	e32	44	48	58	e68	84	92	41	37	45	283	31
13	32	39	46	82	e85	113	96	40	49	41	77	29
14	30	53	52	69	92	98	128	40	368	49	53	28
15	30	85	62	60	82	221	90	37	86	44	39	30
16	32	58	58	58	70	401	89	36	54	37	32	26
17	31	57	153	55	444	200	81	40	61	34	30	26
18	33	70	125	53	282	141	74	38	43	33	41	25
19	31	58	80	77	134	113	75	41	36	58	47	25
20	31	120	72	317	107	134	73	77	34	53	34	46
21	30	84	63	218	92	1470	73	59	33	56	28	65
22	32	62	60	121	136	632	70	75	84	36	25	40
23	32	52	55	92	168	276	70	111	360	33	25	31
24	30	48	e51	82	110	187	65	73	111	35	26	574
25	37	106	e47	75	136	148	130	63	476	72	27	384
26	34	247	e45	67	253	132	125	129	147	81	26	94
27	34	103	e44	66	140	115	75	94	90	80	23	55
28	34	70	e43	63	108	105	64	85	60	47	22	46
29	35	63	e42	63	---	696	59	127	173	39	22	38
30	36	57	e41	71	---	2560	56	95	65	38	22	35
31	35	---	e42	84	---	825	---	57	---	38	22	---
TOTAL	1125	1943	1779	2426	3166	10607	3443	1869	3040	2509	1517	2645
MEAN	36.3	64.8	57.4	78.3	113	342	115	60.3	101	80.9	48.9	88.2
MAX	53	247	153	317	444	2560	371	129	476	745	326	574
MIN	30	34	41	43	56	84	56	36	33	33	22	23
CFSM	.13	.23	.21	.28	.41	1.23	.41	.22	.36	.29	.18	.32
IN.	.15	.26	.24	.32	.42	1.42	.46	.25	.41	.34	.20	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

	2000	2001	2001	2001	2001	2001	2000	2000	2001	2001	2000	2001
MEAN	36.3	64.8	57.4	78.3	113	342	172	71.4	73.5	69.8	67.9	149
MAX	36.3	64.8	57.4	78.3	113	342	229	82.5	101	80.9	86.9	211
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2001	2001	2000	2000
MIN	36.3	64.8	57.4	78.3	113	342	115	60.3	45.6	58.6	48.9	88.2
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001

ANNUAL TOTAL	36069		
ANNUAL MEAN	98.8	105	
HIGHEST ANNUAL MEAN		118	2000
LOWEST ANNUAL MEAN		98.8	2001
HIGHEST DAILY MEAN	2560	Mar 30	2560
LOWEST DAILY MEAN	22	Aug 28	22
ANNUAL SEVEN-DAY MINIMUM	23	Aug 27	23
MAXIMUM PEAK FLOW	3810	Mar 30	3810
MAXIMUM PEAK STAGE	14.67	Mar 30	14.67
INSTANTANEOUS LOW FLOW	19*	Aug 29	19*
ANNUAL RUNOFF (CFSM)	.36		.38
ANNUAL RUNOFF (INCHES)	4.83		5.15
10 PERCENT EXCEEDS	168		195
50 PERCENT EXCEEDS	56		56
90 PERCENT EXCEEDS	31		32

e Estimated.
* See REMARKS.

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