

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

LOCATION.--Lat 35°19'18", long 80°32'27", 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 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 500 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing discharge values on the daily values table are days when the flow exceeded the rating. A daily average of 12.1 ft<sup>3</sup>/s of treated 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 4.0 ft<sup>3</sup>/s of treated 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 of record also occurred Aug. 14, 2002. Minimum discharge for current water year also occurred June 14.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	78	66	86	95	---	466	101	77	392	94	87
2	73	75	82	83	86	---	307	194	48	235	141	69
3	72	74	137	85	251	389	208	443	39	151	187	61
4	64	74	67	86	245	273	175	207	38	141	92	57
5	64	80	89	106	155	234	160	133	51	180	76	54
6	63	97	86	259	---	213	131	109	42	171	85	55
7	64	94	78	137	---	202	124	99	38	119	62	---
8	70	91	72	98	---	198	121	91	46	85	55	---
9	136	87	68	95	327	166	120	84	82	66	53	---
10	106	190	113	105	259	151	113	120	65	58	52	467
11	228	197	429	92	224	163	110	135	45	54	51	284
12	149	74	164	87	453	188	141	137	39	151	101	227
13	118	68	106	88	529	133	347	134	33	83	---	181
14	151	74	---	86	316	122	637	105	---	70	---	172
15	150	66	444	89	305	124	314	91	---	56	419	236
16	142	67	225	87	428	141	218	83	221	50	175	227
17	70	68	211	76	297	154	180	77	125	46	119	---
18	64	68	233	89	239	135	160	75	83	---	114	---
19	63	86	161	112	215	147	145	69	89	187	104	203
20	62	158	146	93	195	135	136	65	140	112	85	140
21	61	93	126	84	184	130	129	60	---	79	76	117
22	60	74	108	83	174	143	121	57	288	68	75	102
23	63	70	107	88	153	119	112	58	167	62	71	95
24	59	69	109	82	154	111	107	84	184	60	67	91
25	57	72	109	85	175	111	101	60	225	56	62	86
26	58	70	97	95	184	112	96	53	---	54	59	83
27	68	67	92	98	205	113	114	51	352	---	58	99
28	89	66	92	107	297	115	109	49	164	---	57	---
29	248	86	91	121	496	113	86	46	125	277	58	---
30	137	80	95	113	---	112	81	44	114	458	150	---
31	90	---	96	111	---	184	---	46	---	142	167	---
TOTAL	2,975	2,613	4,099	3,106	6,641	4,631	5,369	3,160	2,920	3,663	2,965	3,193
MEAN	96.0	87.1	137	100	255	160	179	102	112	131	102	145
MAX	248	197	444	259	529	389	637	443	352	458	419	467
MIN	57	66	66	76	86	111	81	44	33	46	51	54
CFSM	0.35	0.31	0.49	0.36	0.92	0.57	0.64	0.37	0.40	0.47	0.37	0.52
IN.	0.40	0.35	0.55	0.42	0.89	0.62	0.72	0.42	0.39	0.49	0.40	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004
MEAN	99.7	128	224	145	232
MAX	234	325	640	244	442
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)
MIN	32.8	34.3	57.4	78.3	113
(WY)	(2002)	(2002)	(2001)	(2001)	(2001)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2000 - 2004

LOWEST DAILY MEAN	57	Oct 25	33	Jun 13	13	Aug 13, 2002
MAXIMUM PEAK STAGE	22.36	Sep 28	27*	Jun 13	23.21	Apr 11, 2003
INSTANTANEOUS LOW FLOW					11*	Aug 13, 2002

\* See REMARKS.

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

