

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997, 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1996 to September 1997.

WATER TEMPERATURE: November 1996 to September 1997.

SUSPENDED-SEDIMENT DISCHARGE: October 2000 to current year.

INSTRUMENTATION.--Water-quality monitor from November 1996 to September 1997. Optical backscatterance sensor from April 2000 to current year.

REMARKS.--Station operated in cooperation with Mecklenburg County to characterize water quality and suspended sediment in McDowell Creek basin. Miscellaneous water-quality data collected from November 1996 to September 1997 published in U.S. Geological Survey Open File Report 98-67. Continuous record of suspended-sediment concentration was computed by using a relation between optical backscatterance readings and measured suspended-sediment concentrations. Sediment discharge was computed as the product of continuous suspended-sediment concentration and continuous discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 602 microsiemens, June 19, 1997; minimum recorded, 39 microsiemens, July 23, 1997.

WATER TEMPERATURE: Maximum recorded 33.2°C, July 21, 1997; minimum recorded, 0.1°C, Dec. 21, 1996.

SEDIMENT DISCHARGE: Maximum recorded, 266 tons, Sept. 24, 2001; minimum recorded, .01 tons, Sept. 8, 9, 12, 2002.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT LOAD: Maximum recorded, 173 tons, Mar. 17, minimum recorded, .01 tons, Sept. 8, 9, 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
NOV				
08...	1650	2.7	--	
DEC				
19...	1025	6.1	43	.71
FEB				
25...	1545	8.9	6.4	.15
MAR				
05...	1430	18	36	1.8
MAY				
14...	0915	16	197	8.5
14...	1255	12	136	4.4
17...	1110	5.4	--	
30...	1310	10	142	3.8
31...	0900	16	162	7.0
31...	1200	19	164	8.4
JUN				
07...	0940	27	227	16.5
07...	1215	22	193	11.5
28...	0820	12	310	10.0
28...	0840	11	297	8.8
JUL				
15...	1025	5.1	59	.81
25...	1231	18	160	7.8
25...	1300	17	155	7.1
AUG				
26...	0915	4.7	15	.19
26...	1000	4.0	13	.14
29...	0900	2.9	6.8	.05
SEP				
09...	1515	2.7	5.4	.04
16...	0745	47	235	29.8
16...	0815	42	221	25.1
16...	0900	35	--	
16...	1200	24	136	8.8
16...	1430	23	113	7.0
16...	1600	21	398	22.6
16...	1630	18	304	14.8
16...	1700	16	236	10.2
17...	0713	69	470	87.5
17...	0842	46	346	43.0
18...	0730	7.6	32	.67
19...	1115	5.1	--	
26...	1333	86	398	92.5
27...	0700	16	97	4.2

