

Water-Data Report 2007

0214676115 MCALPINE CREEK AT SECONDARY ROAD 2964 NEAR CAMP COX, SC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°02'27", long 80°53'30" referenced to North American Datum of 1983, Lancaster County, SC, Hydrologic Unit 03050103, on left upstream side of Secondary Road 2964 bridge, 0.6 mi upstream of Sugar Creek, 0.5 mi north of Camp Cox, SC.

DRAINAGE AREA.--95.89 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2005 to September 2007.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 496.25 above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Site affected by variable backwater conditions at high flows, therefore a peak flow was not determined for the water years or period of record. Missing discharge values are when flow exceeded the rating. A daily average of treated effluent was discharged into the stream 2.2 mi upstream of the gage, 72.5 ft³/s during the 2006 water year and 75.32 ft³/s during the 2007 water year. Minimum flow for period of record and current water year affected by regulation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	93	112	139	152	137	97	79	88	74	90	80	---
2	127	112	121	197	126	92	106	86	86	85	78	204
3	125	110	123	317	132	97	110	71	109	93	78	130
4	114	99	162	167	134	103	108	85	79	81	82	110
5	108	92	---	148	176	102	90	100	102	82	80	167
6	---	129	---	152	126	96	88	135	88	150	184	116
7	---	125	265	142	139	113	88	139	73	120	204	104
8	---	113	207	133	121	88	87	176	71	82	160	96
9	214	115	371	128	111	104	91	97	84	78	172	103
10	219	112	225	127	105	94	89	78	75	79	341	100
11	347	115	180	177	155	90	87	92	73	77	---	160
12	203	108	164	254	201	92	84	82	202	76	213	104
13	154	106	156	159	130	92	86	90	547	74	156	---
14	141	109	147	372	82	96	82	80	---	76	98	---
15	131	106	---	170	102	96	82	80	---	76	88	282
16	126	102	---	144	110	88	81	78	134	88	---	163
17	128	106	296	148	106	88	94	81	95	77	188	140
18	123	101	232	325	107	85	110	91	88	74	113	119
19	121	112	202	187	114	85	147	93	86	71	89	105
20	121	112	164	154	110	92	148	137	82	97	87	95
21	114	231	165	267	106	473	93	108	82	103	90	94
22	109	---	152	270	103	168	248	90	82	152	149	88
23	125	269	148	216	192	116	195	82	86	---	165	87
24	123	158	140	316	122	111	108	81	183	238	102	89
25	118	138	589	190	115	105	83	78	95	113	91	89
26	116	132	361	152	103	97	112	78	181	122	80	84
27	110	124	166	137	99	93	333	103	---	94	81	82
28	75	133	191	130	96	92	160	80	---	87	85	79
29	108	278	334	140	---	91	109	71	128	91	81	83
30	133	204	180	146	---	89	93	81	101	86	---	75
31	130	---	157	172	---	77	---	72	---	83	---	---
Total	3,856	3,863	5,737	5,889	3,460	3,402	3,471	2,883	3,086	2,895	3,415	3,148
Mean	138	133	212	190	124	110	116	93.0	119	96.5	126	117
Max	347	278	589	372	201	473	333	176	547	238	341	282
Min	75	92	121	127	82	77	79	71	71	71	78	75
Cfsm	1.44	1.39	2.22	1.98	1.29	1.14	1.21	0.97	1.24	1.01	1.32	1.22
In.	1.50	1.50	2.23	2.28	1.34	1.32	1.35	1.12	1.20	1.12	1.32	1.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	138	133	212	190	124	110	116	93.0	119	96.5	126	117
Max	138	133	212	190	124	110	116	93.0	119	96.5	126	117
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	138	133	212	190	124	110	116	93.0	119	96.5	126	117
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)

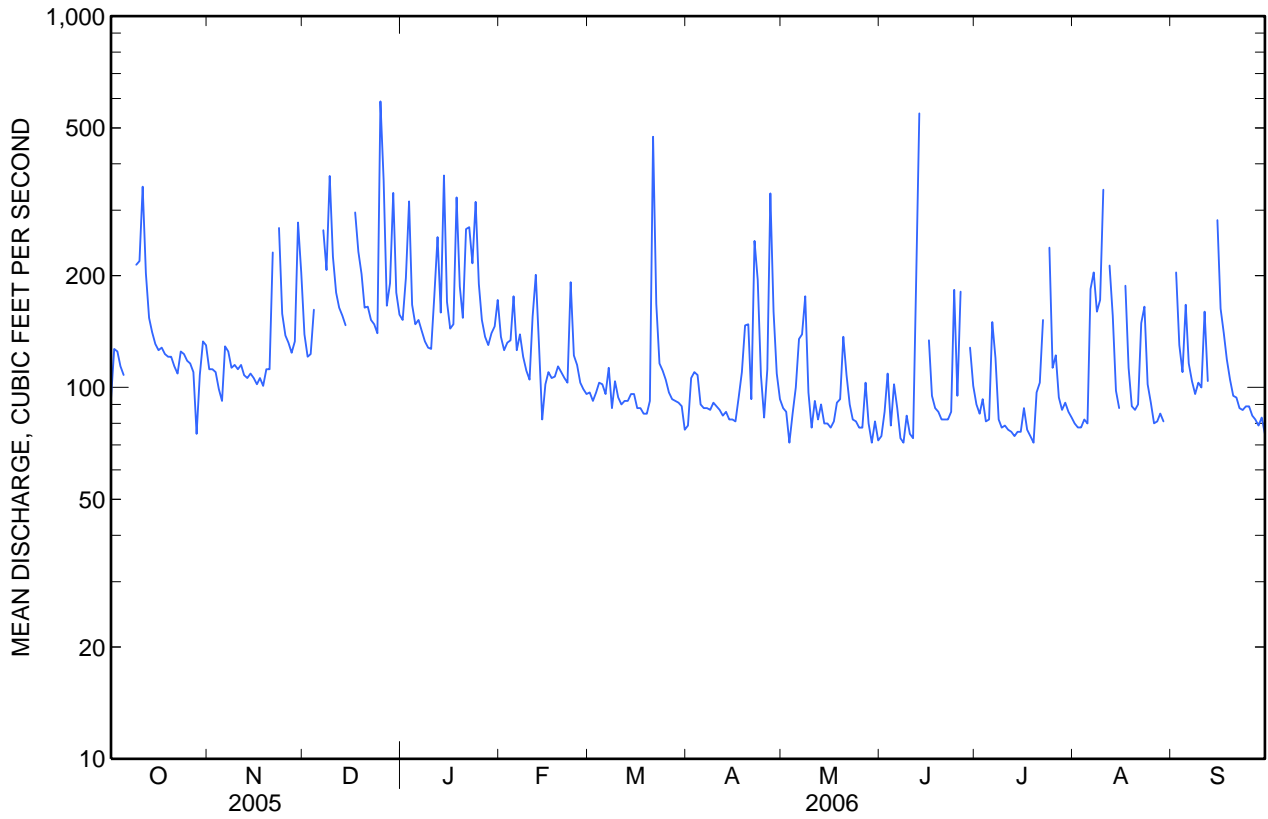
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SUMMARY STATISTICS

Water Year 2006

Lowest daily mean	71	May 3
Annual seven-day minimum	77	Jul 9
Maximum peak stage	15.58	Dec 16
Instantaneous low flow	^a 33	Oct 28

^a See Remarks.



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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	79	91	192	273	379	---	107	101	73	118	81	75
2	80	91	149	217	506	---	160	98	70	91	78	70
3	79	87	112	149	214	---	116	98	134	82	73	64
4	79	82	107	132	160	265	108	97	112	77	69	68
5	79	82	103	---	138	205	102	100	86	71	67	62
6	77	88	100	---	125	180	99	110	75	79	71	61
7	72	193	100	---	123	168	98	104	75	161	82	60
8	287	667	99	---	118	150	96	96	74	269	72	60
9	161	158	94	---	118	150	97	95	69	134	69	61
10	96	113	95	215	115	159	102	119	71	298	69	64
11	87	98	96	183	108	155	104	88	83	95	64	62
12	99	---	95	160	108	135	289	82	98	98	64	63
13	89	188	96	162	---	130	130	106	94	81	67	62
14	77	127	95	157	---	125	107	98	165	74	68	70
15	74	115	89	147	267	122	---	85	136	111	65	135
16	80	---	90	135	189	207	---	84	85	160	65	93
17	---	---	87	122	164	196	177	89	75	91	67	78
18	---	168	82	142	152	138	138	84	76	93	64	75
19	176	155	80	162	145	125	138	81	71	86	64	74
20	115	140	88	125	134	123	496	79	73	75	69	72
21	105	---	95	133	133	122	158	84	74	71	69	73
22	89	---	---	---	128	120	130	81	71	67	70	71
23	87	---	---	210	121	101	122	81	64	69	98	69
24	85	309	174	168	119	107	114	78	69	69	101	72
25	75	220	---	140	---	132	114	76	---	66	76	71
26	88	173	---	128	374	123	109	73	396	69	70	71
27	167	153	216	122	158	112	129	70	118	77	88	68
28	---	139	162	121	139	112	114	72	89	---	74	71
29	171	e140	140	117	---	114	104	78	82	107	69	68
30	112	131	128	111	---	116	108	78	238	99	67	68
31	99	---	139	111	---	108	---	76	---	87	87	---

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2006 - 2007	
Lowest daily mean	71	May 3	60	Sep 7	60	Sep 7, 2007
Annual seven-day minimum	77	Jul 9	61	Sep 5	61	Sep 5, 2007
Maximum peak stage			^a 22.16	Nov 22	^a 22.16	Nov 22, 2006
Instantaneous low flow			^a 20	Sep 9	^a 20	Sep 9, 2007

^a See Remarks.

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