Water-Data Report 2009

02152474 FIRST BROAD RIVER AT LAWNDALE, NC

Santee Basin
Upper Broad Subbasin

LOCATION.--Lat 35°24′55″, long 81°33′42″ referenced to North American Datum of 1983, Cleveland County, NC, Hydrologic Unit 03050105, near center span on downstream side of bridge on North Carolina Highway 182 and 0.2 mi northeast of Lawndale.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 2008 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum stage for period of record and current water year from observed reading of wire-weight gage.

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	48	55	100	93	88	478	323	132	211	90	90	180
2	44	51	78	88	88	1,620	326	131	182	89	79	118
3	42	49	68	88	88	679	436	132	164	81	86	97
4	40	50	63	86	86	453	420	133	157	80	69	86
5	40	52	62	85	80	364	332	128	338	81	76	79
6	40	53	61	176	83	316	288	209	526	110	121	74
7	42	53	62	2,120	88	296	255	224	258	107	72	71
8	49	55	57	776	83	266	231	170	202	86	62	69
9	83	56	56	370	82	238	217	168	176	95	59	226
10	71	55	64	260	80	213	349	208	163	106	54	210
11	58	56	428	212	80	198	1,790	167	216	93	58	145
12	51	56	951	179	90	188	636	152	205	83	72	111
13	44	60	294	159	85	179	430	137	168	118	75	95
14	45	80	198	144	82	202	371	129	165	112	72	84
15	46	72	159	132	82	335	317	124	150	85	61	79
16	45	69	142	121	85	482	267	126	172	76	66	79
17	46	64	142	113	80	351	236	123	521	78	528	113
18	55	58	136	119	91	280	216	128	377	75	190	173
19	59	57	126	112	109	245	204	114	261	67	113	180
20	53	57	119	109	93	227	231	107	210	65	110	714
21	52	57	121	102	88	204	221	102	179	65	101	499
22	52	55	112	100	86	191	200	101	160	66	91	307
23	50	55	104	100	84	182	185	99	143	74	199	225
24	51	55	101	98	82	174	174	110	132	72	203	180
25	68	59	118	95	82	179	163	145	123	63	138	152
26	82	59	114	92	81	211	153	595	115	57	100	242
27	66	56	105	91	87	230	146	511	111	53	84	298
28	59	55	105	96	110	564	140	597	103	57	77	227
29	59	55	110	108	---	894	136	478	101	79	110	169
30	62	74	103	96	---	518	134	352	93	73	116	140
31	58	---	99	91	---	376	---	266	---	115	139	---
Mean	53.5	57.9	147	213	86.5	366	318	203	203	82.3	112	181
Max	83	80	951	2,120	110	1,620	1,790	597	526	118	528	714
Min	40	49	56	85	80	174	134	99	93	53	54	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2009, BY WATER YEAR (WY)

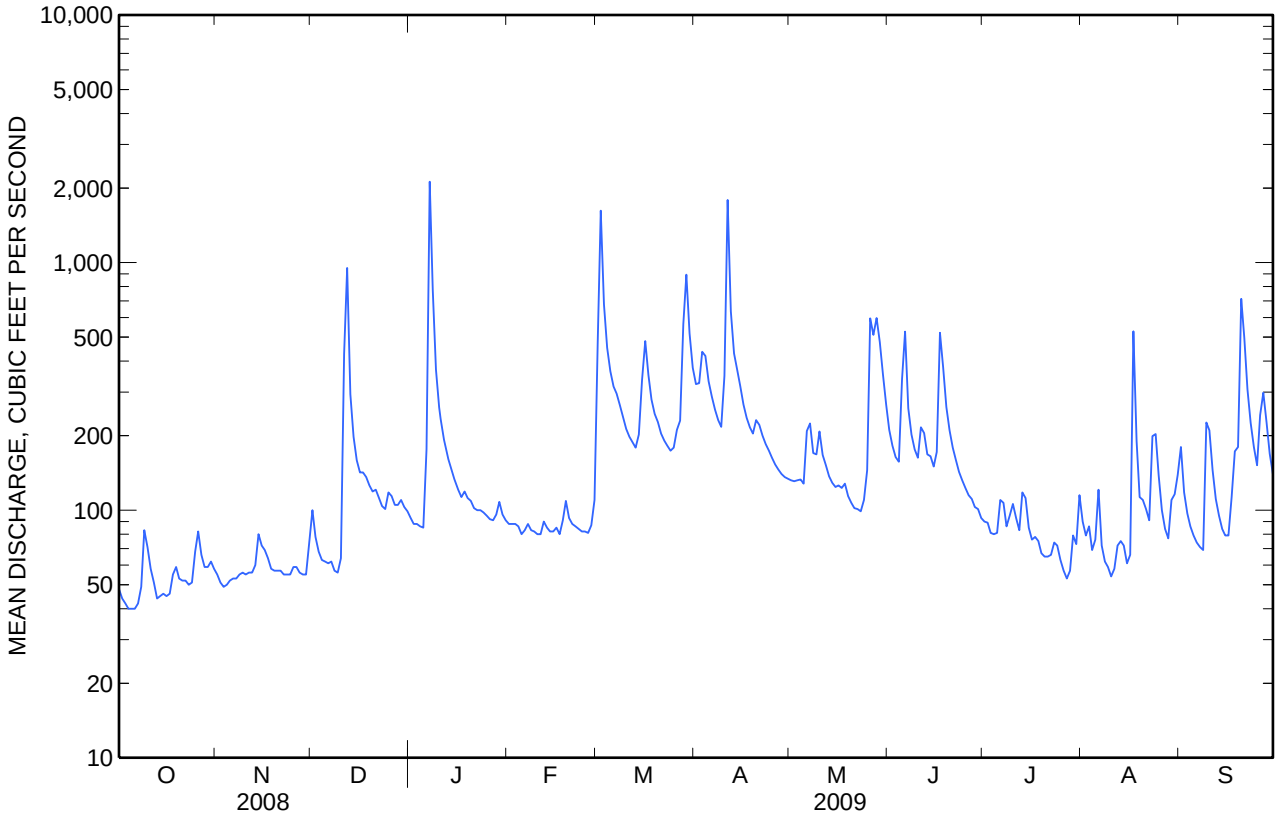
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	53.5	57.9	147	213	86.5	366	232	134	117	55.6	84.9	119
Max	53.5	57.9	147	213	86.5	366	318	203	203	82.3	112	181
(WY)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)
Min	53.5	57.9	147	213	86.5	366	146	64.1	30.8	28.8	57.9	56.7
(WY)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2008 - 2009	
Annual mean			169		169	
Highest annual mean					169	2009
Lowest annual mean					169	2009
Highest daily mean	951	Dec 12	2,120	Jan 7	2,120	Jan 7, 2009
Lowest daily mean	5.9	Jul 22	40	Oct 4	5.9	Jul 22, 2008
Annual seven-day minimum	12	Jul 16	42	Oct 1	12	Jul 16, 2008
Maximum peak flow			3,700	Jan 7	3,700	Jan 7, 2009
Maximum peak stage			[a]9.69	Jan 7	[a]9.69	Jan 7, 2009
Instantaneous low flow			37	Oct 6	2.9	Jul 22, 2008
10 percent exceeds			333		333	
50 percent exceeds			108		108	
90 percent exceeds			56		56	

[a] See Remarks.



02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2008 to September 2009 (discontinued).

REMARKS.--Station operated in cooperation with the Cleveland County Sanitary District to characterize the total sediment load in the First Broad River basin upstream of the proposed reservoir north of Lawndale and downstream of the proposed dam location.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 16

Date	Time	Medium name	Sample type	Instantaneous discharge, ft³/s (00061)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sampling method, code (82398)
Oct						
03...	1005	Surface water	Regular	42	200	S BSV DI att strctr
07...	0836	Surface water	Regular	43	200	S BSV DI att strctr
09...	0834	Surface water	Regular	82	200	S BSV DI att strctr
10...	0903	Surface water	Regular	74	200	S BSV DI att strctr
14...	0915	Surface water	Regular	45	200	S BSV DI att strctr
17...	1307	Surface water	Regular	46	200	S BSV DI att strctr
21...	1555	Surface water	Regular	52	200	S BSV DI att strctr
24...	0901	Surface water	Regular	50	200	S BSV DI att strctr
24...	*0904*	*QC sample - Surface water*	*Replicate*	*50*	*200*	*S BSV DI att strctr*
28...	1017	Surface water	Regular	59	200	S BSV DI att strctr
31...	1014	Surface water	Regular	59	200	S BSV DI att strctr
Nov						
04...	1337	Surface water	Regular	47	200	S BSV DI att strctr
07...	0854	Surface water	Regular	52	200	S BSV DI att strctr
11...	1412	Surface water	Regular	55	200	S BSV DI att strctr
14...	1000	Surface water	Regular	78	200	S BSV DI att strctr
18...	0843	Surface water	Regular	64	200	S BSV DI att strctr
21...	0920	Surface water	Regular	57	200	S BSV DI att strctr
21...	*0923*	*QC sample - Surface water*	*Replicate*	*57*	*200*	*S BSV DI att strctr*
28...	1107	Surface water	Regular	55	200	S BSV DI att strctr
Dec						
02...	1053	Surface water	Regular	77	200	S BSV DI att strctr
05...	0821	Surface water	Regular	62	200	S BSV DI att strctr
09...	1349	Surface water	Regular	55	200	S BSV DI att strctr
11...	1431	Surface water	Regular	267	200	S BSV DI att strctr
11...	1611	Surface water	Regular	377	200	Single vertical
11...	1612	Surface water	Regular	377	--	EWI
12...	0855	Surface water	Regular	953	200	S BSV DI att strctr
12...	1305	Surface water	Regular	692	200	S BSV DI att strctr
16...	1126	Surface water	Regular	142	200	S BSV DI att strctr
19...	0835	Surface water	Regular	128	200	S BSV DI att strctr
19...	*0837*	*QC sample - Surface water*	*Replicate*	*128*	*200*	*S BSV DI att strctr*
23...	0908	Surface water	Regular	104	200	S BSV DI att strctr
26...	1051	Surface water	Regular	114	200	S BSV DI att strctr
30...	1503	Surface water	Regular	101	200	S BSV DI att strctr

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 16

Date	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Data base number	Medium code
Oct					
03...	--	4	.45	01	WS
07...	--	2	.23	01	WS
09...	--	12	2.7	01	WS
10...	--	9	1.8	01	WS
14...	--	11	1.3	01	WS
17...	--	2	.25	01	WS
21...	--	3	.42	01	WS
24...	--	1	.14	01	WS
24...	--	*2*	*.27*	*04*	*WSQ*
28...	--	2	.32	01	WS
31...	--	3	.48	01	WS
Nov					
04...	--	6	.76	01	WS
07...	--	5	.70	01	WS
11...	--	5	.74	01	WS
14...	--	7	1.5	01	WS
18...	--	3	.52	01	WS
21...	--	2	.31	01	WS
21...	--	*2*	*.31*	*04*	*WSQ*
28...	--	2	.30	01	WS
Dec					
02...	--	18	3.7	01	WS
05...	--	4	.67	01	WS
09...	--	45	6.7	01	WS
11...	68	173	125	01	WS
11...	52	373	380	01	WS
11...	62	306	311	01	WS
12...	60	520	1,340	01	WS
12...	59	310	579	01	WS
16...	--	10	3.8	01	WS
19...	--	25	8.6	01	WS
19...	--	*28*	*9.7*	*04*	*WSQ*
23...	--	6	1.7	01	WS
26...	--	6	1.8	01	WS
30...	--	6	1.6	01	WS

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 16

Date	Time	Medium name	Sample type	Instantaneous discharge, ft³/s (00061)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sampling method, code (82398)
Jan						
02...	1238	Surface water	Regular	89	200	S BSV DI att strctr
06...	0906	Surface water	Regular	124	200	S BSV DI att strctr
07...	0924	Surface water	Regular	2,850	200	S BSV DI att strctr
07...	1350	Surface water	Regular	3,670	200	Single vertical
07...	1354	Surface water	Regular	3,670	--	EWI
07...	1443	Surface water	Regular	3,620	--	Bedload (SEWI)
07...	1642	Surface water	Regular	3,300	200	S BSV DI att strctr
07...	2104	Surface water	Regular	1,950	200	S BSV DI att strctr
08...	0908	Surface water	Regular	794	200	S BSV DI att strctr
09...	1328	Surface water	Regular	349	200	S BSV DI att strctr
13...	1417	Surface water	Regular	156	200	S BSV DI att strctr
16...	1301	Surface water	Regular	122	200	S BSV DI att strctr
16...	*1305*	*QC sample - Surface water*	*Replicate*	*122*	*200*	*S BSV DI att strctr*
20...	1337	Surface water	Regular	109	200	S BSV DI att strctr
23...	1115	Surface water	Regular	100	200	S BSV DI att strctr
27...	1448	Surface water	Regular	91	200	S BSV DI att strctr
30...	0918	Surface water	Regular	97	200	S BSV DI att strctr
Feb						
03...	1316	Surface water	Regular	85	200	S BSV DI att strctr
06...	1013	Surface water	Regular	66	200	S BSV DI att strctr
10...	1033	Surface water	Regular	79	200	S BSV DI att strctr
13...	1431	Surface water	Regular	84	200	S BSV DI att strctr
17...	*1122*	*QC sample - Surface water*	*Replicate*	*80*	*200*	*S BSV DI att strctr*
17...	1125	Surface water	Regular	80	200	S BSV DI att strctr
20...	1410	Surface water	Regular	92	200	S BSV DI att strctr
24...	1350	Surface water	Regular	82	200	S BSV DI att strctr
27...	0906	Surface water	Regular	82	200	S BSV DI att strctr
28...	2112	Surface water	Regular	125	200	S BSV DI att strctr

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 16

Date	Bedload sedimnt sieve diametr percent <0.0625 mm (80226)	Bedload sedi-ment, sieve diametr percent <.125mm (80227)	Bedload sedi-ment, sieve diametr percent <.25mm (80228)	Bedload sedi-ment, sieve diametr percent <.5 mm (80229)	Bedload sedi-ment, sieve diametr percent <1 mm (80230)	Bedload sedi-ment, sieve diametr percent <2 mm (80231)	Bedload sedi-ment, sieve diametr percent <4 mm (80232)	Bedload sedi-ment, sieve diametr percent <8 mm (80233)	Bedload sedi-ment, sieve diametr percent <16 mm (80234)	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Data base number
Jan													
02...	--	--	--	--	--	--	--	--	--	--	4	.96	01
06...	--	--	--	--	--	--	--	--	--	--	20	6.7	01
07...	--	--	--	--	--	--	--	--	--	65	2,090	16,100	01
07...	--	--	--	--	--	--	--	--	--	46	1,980	19,600	01
07...	--	--	--	--	--	--	--	--	--	50	1,900	18,800	01
07...	.0	1	5	13	34	69	93	99	100	--	--	--	01
07...	--	--	--	--	--	--	--	--	--	57	1,200	10,700	01
07...	--	--	--	--	--	--	--	--	--	59	691	3,640	01
08...	--	--	--	--	--	--	--	--	--	57	265	568	01
09...	--	--	--	--	--	--	--	--	--	66	59	56	01
13...	--	--	--	--	--	--	--	--	--	--	11	4.6	01
16...	--	--	--	--	--	--	--	--	--	--	6	2.0	01
16...	--	--	--	--	--	--	--	--	--	--	*6*	*2.0*	*04*
20...	--	--	--	--	--	--	--	--	--	--	29	8.5	01
23...	--	--	--	--	--	--	--	--	--	--	6	1.6	01
27...	--	--	--	--	--	--	--	--	--	--	5	1.2	01
30...	--	--	--	--	--	--	--	--	--	--	17	4.5	01
Feb													
03...	--	--	--	--	--	--	--	--	--	--	3	.69	01
06...	--	--	--	--	--	--	--	--	--	--	3	.53	01
10...	--	--	--	--	--	--	--	--	--	--	3	.64	01
13...	--	--	--	--	--	--	--	--	--	--	4	.91	01
17...	--	--	--	--	--	--	--	--	--	--	*2*	*.43*	*04*
17...	--	--	--	--	--	--	--	--	--	--	2	.43	01
20...	--	--	--	--	--	--	--	--	--	--	4	.99	01
24...	--	--	--	--	--	--	--	--	--	--	2	.45	01
27...	--	--	--	--	--	--	--	--	--	--	3	.67	01
28...	--	--	--	--	--	--	--	--	--	--	19	6.4	01

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 16

Date	Medium code
Jan	
02...	WS
06...	WS
07...	WS
07...	WS
07...	WS
07...	WS
07...	WS
07...	WS
08...	WS
09...	WS
13...	WS
16...	WS
16...	*WSQ*
20...	WS
23...	WS
27...	WS
30...	WS
Feb	
03...	WS
06...	WS
10...	WS
13...	WS
17...	*WSQ*
17...	WS
20...	WS
24...	WS
27...	WS
28...	WS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 16

Date	Time	Medium name	Sample type	Instantaneous discharge, ft³/s (00061)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sampling method, code (82398)
Mar						
01...	1138	Surface water	Regular	306	200	S BSV DI att strctr
03...	1028	Surface water	Regular	682	200	S BSV DI att strctr
06...	1033	Surface water	Regular	315	200	S BSV DI att strctr
10...	1441	Surface water	Regular	202	200	S BSV DI att strctr
13...	0802	Surface water	Regular	178	200	S BSV DI att strctr
17...	1412	Surface water	Regular	342	200	S BSV DI att strctr
20...	1430	Surface water	Regular	224	200	S BSV DI att strctr
24...	1443	Surface water	Regular	174	200	S BSV DI att strctr
27...	*0858*	*QC sample - Surface water*	*Replicate*	*224*	*200*	*S BSV DI att strctr*
27...	0900	Surface water	Regular	224	200	S BSV DI att strctr
28...	1100	Surface water	Regular	515	200	Single vertical
28...	*1104*	*QC sample - Surface water*	*Replicate*	*515*	*200*	*Single vertical*
28...	1105	Surface water	Regular	515	--	EWI
28...	1200	Surface water	Regular	557	--	Bedload (SEWI)
28...	1435	Surface water	Regular	633	200	Single vertical
28...	1436	Surface water	Regular	633	--	EWI
28...	1505	Surface water	Regular	633	--	Bedload (SEWI)
28...	1542	Surface water	Regular	649	--	Bedload (SEWI)
31...	1055	Surface water	Regular	379	200	S BSV DI att strctr
Apr						
03...	1403	Surface water	Regular	494	200	S BSV DI att strctr
07...	1027	Surface water	Regular	255	200	S BSV DI att strctr
10...	0959	Surface water	Regular	204	200	S BSV DI att strctr
14...	1155	Surface water	Regular	376	200	S BSV DI att strctr
17...	1102	Surface water	Regular	235	200	Single vertical
21...	1322	Surface water	Regular	213	200	S BSV DI att strctr
24...	0916	Surface water	Regular	176	200	S BSV DI att strctr
24...	*0920*	*QC sample - Surface water*	*Replicate*	*176*	*200*	*S BSV DI att strctr*
28...	1436	Surface water	Regular	138	200	S BSV DI att strctr

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 7 of 16

Date	Bedload sedimnt sieve diametr percent <0.0625 mm (80226)	Bedload sedi-ment, sieve diametr percent <.125mm (80227)	Bedload sedi-ment, sieve diametr percent <.25mm (80228)	Bedload sedi-ment, sieve diametr percent <.5 mm (80229)	Bedload sedi-ment, sieve diametr percent <1 mm (80230)	Bedload sedi-ment, sieve diametr percent <2 mm (80231)	Bedload sedi-ment, sieve diametr percent <4 mm (80232)	Bedload sedi-ment, sieve diametr percent <8 mm (80233)	Bedload sedi-ment, sieve diametr percent <16 mm (80234)	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Data base number
Mar													
01...	--	--	--	--	--	--	--	--	--	68	434	359	01
03...	--	--	--	--	--	--	--	--	--	68	187	344	01
06...	--	--	--	--	--	--	--	--	--	98	65	55	01
10...	--	--	--	--	--	--	--	--	--	--	17	9.3	01
13...	--	--	--	--	--	--	--	--	--	--	11	5.3	01
17...	--	--	--	--	--	--	--	--	--	--	26	24	01
20...	--	--	--	--	--	--	--	--	--	--	11	6.7	01
24...	--	--	--	--	--	--	--	--	--	--	8	3.8	01
27...	--	--	--	--	--	--	--	--	--	--	*34*	*21*	*04*
27...	--	--	--	--	--	--	--	--	--	--	17	10	01
28...	--	--	--	--	--	--	--	--	--	53	134	186	01
28...	--	--	--	--	--	--	--	--	--	*49*	*145*	*202*	*04*
28...	--	--	--	--	--	--	--	--	--	52	142	197	01
28...	1	2	4	10	31	64	89	99	100	--	--	--	01
28...	--	--	--	--	--	--	--	--	--	53	182	311	01
28...	--	--	--	--	--	--	--	--	--	52	178	304	01
28...	1	3	13	37	58	73	88	95	100	--	--	--	01
28...	.0	1	1	4	17	46	75	93	100	--	--	--	01
31...	--	--	--	--	--	--	--	--	--	--	32	33	01
Apr													
03...	--	--	--	--	--	--	--	--	--	56	89	119	01
07...	--	--	--	--	--	--	--	--	--	--	13	9.0	01
10...	--	--	--	--	--	--	--	--	--	--	6	3.3	01
14...	--	--	--	--	--	--	--	--	--	38	56	57	01
17...	--	--	--	--	--	--	--	--	--	--	21	13	01
21...	--	--	--	--	--	--	--	--	--	--	30	17	01
24...	--	--	--	--	--	--	--	--	--	--	12	5.7	01
24...	--	--	--	--	--	--	--	--	--	--	*10*	*4.8*	*04*
28...	--	--	--	--	--	--	--	--	--	--	6	2.2	01

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 8 of 16

Date	Medium code
Mar	
01...	WS
03...	WS
06...	WS
10...	WS
13...	WS
17...	WS
20...	WS
24...	WS
27...	*WSQ*
27...	WS
28...	WS
28...	*WSQ*
28...	WS
28...	WS
28...	WS
28...	WS
28...	WS
28...	WS
31...	WS
Apr	
03...	WS
07...	WS
10...	WS
14...	WS
17...	WS
21...	WS
24...	WS
24...	*WSQ*
28...	WS

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 9 of 16

Date	Time	Medium name	Sample type	Instantaneous discharge, ft³/s (00061)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sampling method, code (82398)
May						
01...	0835	Surface water	Regular	132	200	S BSV DI att strctr
05...	1355	Surface water	Regular	129	200	S BSV DI att strctr
08...	1121	Surface water	Regular	164	200	S BSV DI att strctr
12...	0704	Surface water	Regular	156	200	S BSV DI att strctr
15...	1103	Surface water	Regular	122	200	S BSV DI att strctr
19...	1000	Surface water	Regular	112	200	S BSV DI att strctr
22...	1033	Surface water	Regular	100	200	S BSV DI att strctr
22...	*1035*	*QC sample - Surface water*	*Replicate*	*100*	*200*	*S BSV DI att strctr*
26...	0835	Surface water	Regular	200	200	S BSV DI att strctr
26...	1420	Surface water	Regular	1,100	200	S BSV DI att strctr
26...	1607	Surface water	Regular	1,020	200	Single vertical
26...	*1611*	*QC sample - Surface water*	*Replicate*	*1,020*	*200*	*Single vertical*
26...	1612	Surface water	Regular	1,020	--	EWI
26...	1700	Surface water	Regular	900	--	Bedload (SEWI)
26...	1730	Surface water	Regular	871	--	Bedload (SEWI)
26...	1800	Surface water	Regular	882	--	Bedload (SEWI)
29...	1240	Surface water	Regular	453	200	S BSV DI att strctr
Jun						
02...	1130	Surface water	Regular	180	200	S BSV DI att strctr
05...	1324	Surface water	Regular	353	200	S BSV DI att strctr
09...	1246	Surface water	Regular	176	200	S BSV DI att strctr
12...	1135	Surface water	Regular	213	200	S BSV DI att strctr
16...	1250	Surface water	Regular	166	200	S BSV DI att strctr
17...	1010	Surface water	Regular	652	200	S BSV DI att strctr
17...	1219	Surface water	Regular	652	200	S BSV DI att strctr
17...	1420	Surface water	Regular	617	200	S BSV DI att strctr
19...	1112	Surface water	Regular	262	200	S BSV DI att strctr
19...	*1115*	*QC sample - Surface water*	*Replicate*	*262*	*200*	*S BSV DI att strctr*
23...	0736	Surface water	Regular	145	200	S BSV DI att strctr
26...	0820	Surface water	Regular	115	200	S BSV DI att strctr
30...	1252	Surface water	Regular	94	200	S BSV DI att strctr

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 10 of 16

Date	Bedload sedimnt sieve diametr percent <0.0625 mm (80226)	Bedload sedi-ment, sieve diametr percent <.125mm (80227)	Bedload sedi-ment, sieve diametr percent <.25mm (80228)	Bedload sedi-ment, sieve diametr percent <.5 mm (80229)	Bedload sedi-ment, sieve diametr percent <1 mm (80230)	Bedload sedi-ment, sieve diametr percent <2 mm (80231)	Bedload sedi-ment, sieve diametr percent <4 mm (80232)	Bedload sedi-ment, sieve diametr percent <8 mm (80233)	Bedload sedi-ment, sieve diametr percent <16 mm (80234)	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Data base number
May													
01...	--	--	--	--	--	--	--	--	--	--	23	8.2	01
05...	--	--	--	--	--	--	--	--	--	--	7	2.4	01
08...	--	--	--	--	--	--	--	--	--	--	22	9.7	01
12...	--	--	--	--	--	--	--	--	--	--	19	8.0	01
15...	--	--	--	--	--	--	--	--	--	--	11	3.6	01
19...	--	--	--	--	--	--	--	--	--	--	8	2.4	01
22...	--	--	--	--	--	--	--	--	--	--	13	3.5	01
22...	--	--	--	--	--	--	--	--	--	--	*7*	*1.9*	*04*
26...	--	--	--	--	--	--	--	--	--	72	60	32	01
26...	--	--	--	--	--	--	--	--	--	54	1,850	5,490	01
26...	--	--	--	--	--	--	--	--	--	64	1,020	2,810	01
26...	--	--	--	--	--	--	--	--	--	*54*	*1,220*	*3,360*	*04*
26...	--	--	--	--	--	--	--	--	--	47	1,450	3,990	01
26...	1	2	23	56	71	89	98	100	--	--	--	--	01
26...	.0	1	9	39	54	74	88	96	100	--	--	--	01
26...	1	4	27	72	82	90	96	99	100	--	--	--	01
29...	--	--	--	--	--	--	--	--	--	30	107	131	01
Jun													
02...	--	--	--	--	--	--	--	--	--	--	21	10	01
05...	--	--	--	--	--	--	--	--	--	43	225	214	01
09...	--	--	--	--	--	--	--	--	--	--	18	8.6	01
12...	--	--	--	--	--	--	--	--	--	--	54	31	01
16...	--	--	--	--	--	--	--	--	--	--	22	9.9	01
17...	--	--	--	--	--	--	--	--	--	44	799	1,410	01
17...	--	--	--	--	--	--	--	--	--	51	724	1,270	01
17...	--	--	--	--	--	--	--	--	--	61	441	735	01
19...	--	--	--	--	--	--	--	--	--	--	49	35	01
19...	--	--	--	--	--	--	--	--	--	--	*89*	*63*	*04*
23...	--	--	--	--	--	--	--	--	--	--	23	9.0	01
26...	--	--	--	--	--	--	--	--	--	--	14	4.3	01
30...	--	--	--	--	--	--	--	--	--	--	6	1.5	01

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 11 of 16

Date	Medium code
May	
01...	WS
05...	WS
08...	WS
12...	WS
15...	WS
19...	WS
22...	WS
22...	*WSQ*
26...	WS
26...	WS
26...	WS
26...	*WSQ*
26...	WS
26...	WS
26...	WS
26...	WS
29...	WS
Jun	
02...	WS
05...	WS
09...	WS
12...	WS
16...	WS
17...	WS
17...	WS
17...	WS
19...	WS
19...	*WSQ*
23...	WS
26...	WS
30...	WS

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 12 of 16

Date	Time	Medium name	Sample type	Instantaneous discharge, ft³/s (00061)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sampling method, code (82398)
Jul						
03...	1218	Surface water	Regular	77	200	S BSV DI att strctr
07...	0735	Surface water	Regular	113	200	S BSV DI att strctr
09...	0745	Surface water	Regular	96	200	S BSV DI att strctr
14...	1150	Surface water	Regular	113	200	S BSV DI att strctr
17...	1100	Surface water	Regular	74	200	S BSV DI att strctr
17...	*1104*	*QC sample - Surface water*	*Replicate*	*74*	*200*	*S BSV DI att strctr*
21...	1121	Surface water	Regular	65	200	S BSV DI att strctr
28...	1304	Surface water	Regular	54	200	S BSV DI att strctr
30...	1205	Surface water	Regular	73	200	S BSV DI att strctr
Aug						
04...	0807	Surface water	Regular	69	200	S BSV DI att strctr
04...	1434	Surface water	Regular	72	200	Single vertical
04...	*1435*	*QC sample - Surface water*	*Replicate*	*72*	*200*	*Single vertical*
04...	1436	Surface water	Regular	72	--	EWI
04...	1516	Surface water	Regular	70	--	Bedload (SEWI)
04...	1546	Surface water	Regular	67	--	Bedload (SEWI)
07...	0819	Surface water	Regular	73	200	S BSV DI att strctr
11...	0806	Surface water	Regular	50	200	S BSV DI att strctr
14...	1008	Surface water	Regular	77	200	S BSV DI att strctr
14...	*1011*	*QC sample - Surface water*	*Replicate*	*77*	*200*	*S BSV DI att strctr*
17...	0830	Surface water	Regular	542	200	S BSV DI att strctr
17...	1130	Surface water	Regular	1,370	200	S BSV DI att strctr
17...	1326	Surface water	Regular	1,050	200	Single vertical
17...	*1330*	*QC sample - Surface water*	*Replicate*	*1,050*	*200*	*Single vertical*
17...	1331	Surface water	Regular	1,050	--	EWI
17...	1450	Surface water	Regular	835	--	Bedload (SEWI)
17...	1510	Surface water	Regular	764	--	Bedload (SEWI)
17...	1522	Surface water	Regular	740	200	S BSV DI att strctr
18...	1121	Surface water	Regular	182	200	S BSV DI att strctr
21...	1035	Surface water	Regular	102	200	S BSV DI att strctr
25...	1223	Surface water	Regular	132	200	S BSV DI att strctr
28...	0818	Surface water	Regular	76	200	S BSV DI att strctr

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 13 of 16

Date	Bedload sedimnt sieve diametr percent <0.0625 mm (80226)	Bedload sedi-ment, sieve diametr percent <.125mm (80227)	Bedload sedi-ment, sieve diametr percent <.25mm (80228)	Bedload sedi-ment, sieve diametr percent <.5 mm (80229)	Bedload sedi-ment, sieve diametr percent <1 mm (80230)	Bedload sedi-ment, sieve diametr percent <2 mm (80231)	Bedload sedi-ment, sieve diametr percent <4 mm (80232)	Bedload sedi-ment, sieve diametr percent <8 mm (80233)	Bedload sedi-ment, sieve diametr percent <16 mm (80234)	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Data base number
Jul													
03...	--	--	--	--	--	--	--	--	--	--	4	.83	01
07...	--	--	--	--	--	--	--	--	--	--	27	8.2	01
09...	--	--	--	--	--	--	--	--	--	--	14	3.6	01
14...	--	--	--	--	--	--	--	--	--	--	37	11	01
17...	--	--	--	--	--	--	--	--	--	--	8	1.6	01
17...	--	--	--	--	--	--	--	--	--	--	*7*	*1.4*	*04*
21...	--	--	--	--	--	--	--	--	--	--	14	2.5	01
28...	--	--	--	--	--	--	--	--	--	--	6	.87	01
30...	--	--	--	--	--	--	--	--	--	--	11	2.2	01
Aug													
04...	--	--	--	--	--	--	--	--	--	--	10	1.9	01
04...	--	--	--	--	--	--	--	--	--	--	7	1.4	01
04...	--	--	--	--	--	--	--	--	--	--	*7*	*1.4*	*04*
04...	--	--	--	--	--	--	--	--	--	--	6	1.2	01
04...	.0	.0	10	64	96	100	--	--	--	--	--	--	01
04...	.0	.0	9	58	95	100	--	--	--	--	--	--	01
07...	--	--	--	--	--	--	--	--	--	--	25	4.9	01
11...	--	--	--	--	--	--	--	--	--	--	10	1.4	01
14...	--	--	--	--	--	--	--	--	--	--	11	2.3	01
14...	--	--	--	--	--	--	--	--	--	--	*10*	*2.1*	*04*
17...	--	--	--	--	--	--	--	--	--	32	2,710	3,970	01
17...	--	--	--	--	--	--	--	--	--	60	1,470	5,440	01
17...	--	--	--	--	--	--	--	--	--	58	1,090	3,090	01
17...	--	--	--	--	--	--	--	--	--	*55*	*1,170*	*3,320*	*04*
17...	--	--	--	--	--	--	--	--	--	63	1,030	2,920	01
17...	.0	1	9	40	65	82	92	97	100	--	--	--	01
17...	1	2	12	71	94	98	99	100	--	--	--	--	01
17...	--	--	--	--	--	--	--	--	--	57	995	1,990	01
18...	--	--	--	--	--	--	--	--	--	--	81	40	01
21...	--	--	--	--	--	--	--	--	--	--	25	6.9	01
25...	--	--	--	--	--	--	--	--	--	--	42	15	01
28...	--	--	--	--	--	--	--	--	--	--	14	2.9	01

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 14 of 16

Date	Medium code
Jul	
03...	WS
07...	WS
09...	WS
14...	WS
17...	WS
17...	*WSQ*
21...	WS
28...	WS
30...	WS
Aug	
04...	WS
04...	WS
04...	*WSQ*
04...	WS
04...	WS
04...	WS
07...	WS
11...	WS
14...	WS
14...	*WSQ*
17...	WS
17...	WS
17...	WS
17...	*WSQ*
17...	WS
17...	WS
17...	WS
17...	WS
18...	WS
21...	WS
25...	WS
28...	WS

02152474 FIRST BROAD RIVER AT LAWNDALE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 15 of 16

Date	Time	Medium name	Sample type	Instantaneous discharge, ft³/s (00061)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sampling method, code (82398)
Sep						
01...	1200	Surface water	Regular	178	200	S BSV DI att strctr
04...	1018	Surface water	Regular	85	200	S BSV DI att strctr
08...	1100	Surface water	Regular	67	200	S BSV DI att strctr
11...	1345	Surface water	Regular	138	200	S BSV DI att strctr
11...	*1349*	*QC sample - Surface water*	*Replicate*	*138*	*200*	*S BSV DI att strctr*
15...	1406	Surface water	Regular	79	200	S BSV DI att strctr
18...	1355	Surface water	Regular	183	200	S BSV DI att strctr
21...	0850	Surface water	Regular	520	200	S BSV DI att strctr
22...	1257	Surface water	Regular	297	200	S BSV DI att strctr
25...	0835	Surface water	Regular	153	200	S BSV DI att strctr
29...	0852	Surface water	Regular	172	200	S BSV DI att strctr
30...	1345	Surface water	Regular	140	200	S BSV DI att strctr

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 16 of 16

Date	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Data base number	Medium code
Sep					
01...	--	54	26	01	WS
04...	--	46	11	01	WS
08...	--	7	1.3	01	WS
11...	--	33	12	01	WS
11...	--	*29*	*11*	*04*	*WSQ*
15...	--	7	1.5	01	WS
18...	--	61	30	01	WS
21...	72	159	223	01	WS
22...	--	63	51	01	WS
25...	--	16	6.6	01	WS
29...	--	15	7.0	01	WS
30...	--	10	3.8	01	WS