

Water-Data Report 2008

0208701450 LEDGE CREEK AT SECONDARY ROAD 1004 AT STEM, NC (L-2)

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°11'40", long 78°43'41" referenced to North American Datum of 1983, Granville County, NC, Hydrologic Unit 03020201, .5 mi south of Stem.

DRAINAGE AREA.--1.88 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2005, December 2005, February 2008 to April 2008.

COOPERATION.--Station operated in cooperation with the U.S. Army Corps of Engineers to characterize water-quality conditions upstream from Lake Rogers.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
Part 1 of 2
[QC, quality control sample. Remark codes: <, less than.]

Date	Time	Sample medium and type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)
Sep									
07...	0930	Surface water, regular	.00	.7	8	7.2	370	17.8	.116
07...	0935	QC - Surface water, replicate	--	.7	7	7.2	370	17.8	.114

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
Part 2 of 2
[QC, quality control sample. Remark codes: <, less than.]

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Total nitrogen, wat unfltrd, by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L as P (00665)	Suspended sediment concentration, mg/L (80154)	Data base number	Medium code
Sep							
07...	<.016	1.51	<.006	.12	58	01	WS
07...	<.080	1.42	<.030	.13	61	04	WSQ

0208701450 LEDGE CREEK AT SECONDARY ROAD 1004 AT STEM, NC (L-2)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 2

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Total nitrogen, water, unfltrd by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L as P (00665)	Suspended sediment concentration, mg/L (80154)
Dec 05...	1230	17	10.0	87	6.7	100	8.4	.224	.365	1.96	.093	.28	80

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 2

Date	Suspended sediment discharge, tons/d (80155)
Dec 05...	3.6

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 2

[QC, quality control sample. Remark codes: <, less than.]

Date	Time	Sample medium and type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)
Feb 14...	1045	QC - Artificial, blank	--	--	--	--	--	--	<.020
Feb 14...	1115	Surface water, regular	.72	11.7	93	6.8	123	5.2	.066
Mar 05...	0940	Surface water, regular	8.8	10.0	93	6.1	81	11.3	.134
Apr 28...	1345	Surface water, regular	8.6	8.5	92	6.7	69	18.3	.022
Apr 28...	1350	QC - Surface water, replicate	8.6	8.5	92	6.7	69	18.3	.024

0208701450 LEDGE CREEK AT SECONDARY ROAD 1004 AT STEM, NC (L-2)—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 2

[QC, quality control sample. Remark codes: <, less than.]

Date	Nitrate + nitrite water flt'd, mg/L as N (00631)	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Ortho- phos- phate, water, flt'd, mg/L as P (00671)	Phos- phorus, water, unflt'd mg/L as P (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Data base number	Medium code
Feb								
14...	<.04	<.06	<.006	<.02	--	--	04	OAQ
14...	.42	1.12	.006	.04	5	.01	01	WS
Mar								
05...	.44	1.61	.018	.11	35	.83	01	WS
Apr								
28...	.12	1.00	.009	.07	22	.51	01	WS
28...	.12	.99	.009	.07	--	--	04	WSQ