0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 36°08′30″, long 78°55′09″ referenced to North American Datum of 1983, Durham County, NC, Hydrologic Unit 03020201, on right bank, 5 feet downstream from bridge on Secondary Road 1461, and 1.8 mi northwest of Orange Factory.

DRAINAGE AREA.--78.2 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1987 to current year. Prior to October 1987, equivalent records published as "Little River near Orange Factory, NC" (02085220), September 1961 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is 382.89 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from extension of rating curve above 2,300 ft^3/s, based on contracted-opening measurement of peak flow; maximum gage height, 13.26 ft, from high-water mark in gage shelter. No flow occurs periodically. Minimum discharge for current water year also occurred September 17.

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	27	2.9	185	23	29	778	101	19	11	9.3	145	4.7
2	23	3.2	56	22	25	804	95	18	8.3	8.2	41	3.3
3	17	2.9	31	22	30	225	416	18	6.6	7.4	18	2.8
4	13	4.7	22	29	37	139	205	18	6.4	6.7	12	2.6
5	11	16	18	45	28	113	114	21	264	6.5	8.6	2.2
6	9.1	18	15	266	23	87	119	35	231	110	17	1.8
7	7.6	10	14	629	22	70	126	129	68	33	13	1.5
8	6.9	6.4	12	280	21	58	83	58	35	17	8.4	1.7
9	6.5	4.4	11	117	20	48	64	30	25	11	6.1	1.6
10	6.3	4.1	11	73	19	41	56	34	312	8.8	5.0	1.3
11	5.7	4.0	577	56	19	38	132	29	111	7.7	4.3	1.2
12	5.2	4.3	832	44	19	36	100	24	259	7.4	5.8	1.1
13	4.7	4.5	184	36	17	31	64	20	96	6.7	8.0	1.0
14	4.8	4.9	92	33	16	95	58	16	45	7.6	6.3	0.94
15	4.6	30	60	29	17	822	61	16	164	6.6	4.9	0.85
16	4.3	38	47	e27	16	605	50	17	210	6.3	4.1	0.81
17	4.1	18	45	e24	15	437	42	17	165	7.1	3.6	1.0
18	5.9	11	43	22	20	212	37	17	449	110	4.7	1.1
19	5.2	8.2	37	23	37	146	34	17	120	35	5.1	1.1
20	5.0	7.2	33	23	32	160	51	16	58	14	4.0	1.1
21	5.2	6.3	155	e21	23	125	135	16	38	9.5	5.7	0.95
22	4.6	5.3	136	20	20	90	60	15	29	8.6	4.1	1.1
23	4.0	5.9	63	18	18	76	43	14	e25	30	3.8	1.4
24	3.8	5.5	45	19	17	66	33	13	e20	27	8.1	1.8
25	4.2	6.6	88	17	16	58	29	13	18	14	5.7	1.7
26	4.2	6.6	88	16	16	58	27	14	16	9.4	4.1	2.8
27	4.2	6.4	52	17	16	199	23	18	14	7.0	3.3	5.1
28	3.5	7.0	42	25	22	399	21	15	12	5.9	5.0	5.1
29	3.6	6.4	37	95	---	968	20	13	11	4.9	22	4.5
30	3.3	127	31	54	---	225	19	16	10	5.0	8.2	4.6
31	2.9	---	27	36	---	133	---	15	---	5.9	5.3	---
Total	220.4	385.7	3,089	2,161	610	7,342	2,418	731	2,837.3	553.5	400.2	62.75
Mean	7.11	12.9	99.6	69.7	21.8	237	80.6	23.6	94.6	17.9	12.9	2.09
Max	27	127	832	629	37	968	416	129	449	110	145	5.1
Min	2.9	2.9	11	16	15	31	19	13	6.4	4.9	3.3	0.81
Cfsm	0.09	0.16	1.27	0.89	0.28	3.03	1.03	0.30	1.21	0.23	0.17	0.03
In.	0.10	0.18	1.47	1.03	0.29	3.49	1.15	0.35	1.35	0.26	0.19	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2009, BY WATER YEAR (WY)

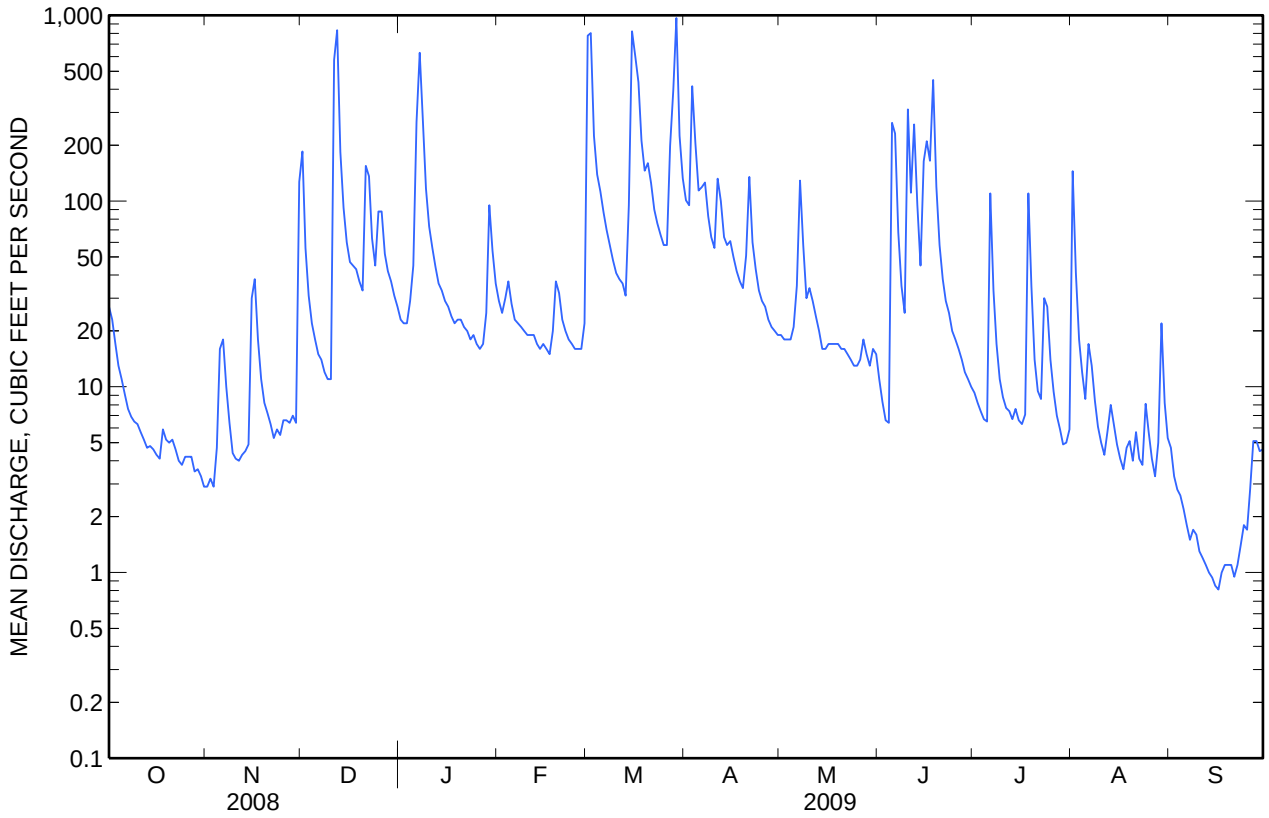
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	33.6	44.7	69.9	108	112	168	111	50.4	42.8	31.4	25.6	52.6
Max	222	171	215	257	379	456	346	203	194	141	125	329
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(1993)	(2003)	(2003)	(1995)	(2003)	(2003)	(1996)
Min	0.14	0.07	5.06	7.50	21.8	12.7	17.1	7.48	2.08	0.31	0.19	0.01
(WY)	(1994)	(2008)	(2002)	(2008)	(2009)	(2006)	(1995)	(2002)	(2002)	(2002)	(2007)	(2007)

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1987 - 2009	
Annual total	18,479.01		20,810.85			
Annual mean	50.5		57.0		70.5	
Highest annual mean					195	2003
Lowest annual mean					14.8	2002
Highest daily mean	4,190	Sep 6	968	Mar 29	6,500	Sep 6, 1996
Lowest daily mean	0.02	Aug 22	0.81	Sep 16	0.00	Aug 19, 1988
Annual seven-day minimum	0.02	Aug 20	0.97	Sep 12	0.00	Aug 19, 1988
Maximum peak flow			2,460	Mar 1	[a]11,600	Sep 6, 1996
Maximum peak stage			5.77	Mar 1	[a]13.26	Sep 6, 1996
Instantaneous low flow			[a]0.78	Sep 16	[a]0.00	Aug 19, 1998
Annual runoff (cfsm)	0.646		0.729		0.901	
Annual runoff (inches)	8.79		9.90		12.25	
10 percent exceeds	89		132		140	
50 percent exceeds	11		18		23	
90 percent exceeds	0.49		3.9		1.5	

[a] See Remarks



0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment. For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Laboratory. Samples for October 1994 and April 1995 were collected by the North Carolina Department of Environment, Health, and Natural Resources. A GC/FID scan for trace organic compounds was performed on these samples by the U.S. Geological Survey National Water Quality Lab. Results may be obtained from the District office in Raleigh, NC.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Color, water, fltrd, Pt-Co units (00080)	Instantaneous discharge, ft^3/s (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
Mar								
01...	1215	Surface water	Regular	754	80	241	11.8	97
May								
05...	1230	Surface water	Regular	755	--	49	8.6	95
05...	*1330*	*QC sample - Surface water*	*Replicate*	--	--	--	--	--
19...	0945	Surface water	Regular	762	--	17	10.7	107
19...	1015	Bottom material	Regular	--	--	--	--	--
Jun								
05-07	1501	Surface water	Composite (time)	--	--	--	--	--
23...	1040	Surface water	Regular	747	--	15	8.6	104
Jul								
16...	1030	Surface water	Regular	754	--	1.4	7.8	94
Jul								
18-19	0503	Surface water	Composite (time)	--	--	--	--	--
Aug								
01-02	0530	Surface water	Composite (time)	--	--	--	--	--
06...	1100	Surface water	Regular	754	--	27	7.3	90
Aug								
28-30	2014	Surface water	Composite (time)	--	--	--	--	--
Sep								
22...	0930	Surface water	Regular	759	--	1.0	--	--
25...	*1045*	*QC sample - Artificial*	*Blank*	--	--	--	--	--

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Dissolved solids dried @ 105degC wat flt mg/L (00515)	Dissolved solids dried @ 180degC wat flt mg/L (70300)	Hardness, water, mg/L as CaCO3 (00900)	Suspended solids, water, unfltrd mg/L (00530)	Total solids dried at 105degC wat unf mg/L (00500)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf infl pt titr., field, mg/L as CaCO3 (00419)
Mar													
01...	7.3	81	6.4	--	59	26	--	--	6.28	2.43	1.26	5.26	22
May													
05...	6.8	97	19.6	74	74	34	<15	74	8.04	3.30	1.53	5.49	--
05...	*7.0*	*95*	--	*70*	*78*	*33*	*<15*	*77*	*7.89*	*3.25*	*1.51*	*5.52*	--
19...	7.4	96	15.4	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	7.2	66	--	66	68	21	156	158	4.89	2.10	2.43	3.65	--
23...	6.9	86	24.0	74	87	30	<15	85	7.20	3.04	1.61	4.91	--
Jul													
16...	7.2	105	24.5	66	69	34	<15	76	8.22	3.35	1.66	5.61	--
Jul													
18-19	6.7	80	--	69	77	23	99	192	5.54	2.27	2.26	3.78	--
Aug													
01-02	7.2	72	--	62	60	24	106	192	5.62	2.30	2.34	4.25	--
06...	6.7	75	25.0	63	50	24	<15	73	5.84	2.40	2.34	3.67	--
Aug													
28-30	7.2	83	--	61	60	28	<15	75	6.70	2.74	2.83	4.16	--
Sep													
22...	--	--	--	70	78	38	<15	77	8.82	3.79	3.31	5.53	--
25...	--	--	--	--	*<10*	--	--	*<13*	*.02*	*<.012*	*<.06*	*<.12*	--

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Bicarbonate, wat unf infl pt titr., field, mg/L (00450)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
Mar													
01...	--	--	--	27	--	6.17	<.08	9.12	4.88	.51	E.015	.339	.002
May													
05...	34	30	37	--	--	6.71	--	--	2.82	.38	<.020	.57	--
05...	*34*	--	--	--	--	*6.70*	--	--	*2.72*	*.38*	*.021*	*.56*	--
19...	--	--	--	--	--	--	--	--	2.79	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	20	--	--	--	E.01	4.05	--	--	3.82	1.2	.040	.42	--
23...	28	24	30	--	E.02	5.02	--	--	3.03	.44	<.020	.43	--
Jul													
16...	37	30.9	37.7	--	.02	5.95	--	--	2.13	.35	<.020	.17	--
Jul													
18-19	--	--	--	--	E.02	11.0	--	--	2.60	.77	<.020	.28	--
Aug													
01-02	26	--	--	--	E.02	3.94	--	--	2.52	.80	.032	.38	--
06...	27	21.4	26.1	--	<.02	3.59	--	--	3.26	.49	E.017	.34	--
Aug													
28-30	31	--	--	--	E.01	5.07	--	--	2.24	.45	<.020	.21	--
Sep													
22...	44	40.0	48.8	--	E.02	6.65	--	--	1.71	.37	<.020	.09	--
25...	--	--	--	--	*<.02*	*<.12*	--	--	*<.18*	*<.10*	--	*<.04*	--

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 4 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L as P (00665)	Total nitro-gen, water, unfltrd mg/L (00600)	Mercury bed sedimnt total digest µg/g (01385)	Alum-inum, water, fltrd, µg/L (01106)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Chrom-ium, water, fltrd, µg/L (01030)	Chrom-ium, water, unfltrd recover-able, µg/L (01034)	Cobalt water, unfltrd recover-able, µg/L (01037)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover-able, µg/L (01042)
Mar													
01...	.009	.066	.85	--	--	412	--	<.06	--	.56	.50	--	<4.0
May													
05...	.011	.034	.96	--	49.7	84	<.02	<.06	.21	E.21	--	1.3	<4.0
05...	*.014*	*.035*	*.94*	--	*59.6*	*108*	*<.02*	*<.06*	*.21*	*E.27*	--	*1.4*	*<4.0*
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	.04	--	--	--	--	--	--	--	--	--
Jun													
05-07	.031	.259	1.6	--	77.4	1,260	<.02	<.06	.24	1.5	--	2.0	E3.9
23...	.029	.069	.86	--	68.7	187	<.02	<.06	.26	E.34	--	1.7	<4.0
Jul													
16...	.014	.037	.53	--	35.7	78	<.02	E.06	.13	<.40	--	1.1	<4.0
Jul													
18-19	.016	.185	1.0	--	56.9	1,220	.03	<.06	.22	1.3	--	1.5	E2.4
Aug													
01-02	.031	.226	1.2	--	130	1,040	<.02	<.06	.23	1.1	--	1.3	E3.0
06...	.024	.092	.82	--	95.0	248	<.02	<.06	.19	E.35	--	1.4	<4.0
Aug													
28-30	.027	--	.66	--	56.5	244	<.02	<.06	.20	<.40	--	E.95	<4.0
Sep													
22...	E.008	.031	.46	--	14.6	58	<.02	<.06	E.09	<.40	--	E.62	<4.0
25...	--	*<.008*	--	--	--	*E4*	--	*<.06*	--	*<.40*	--	--	*<4.0*

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 5 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Mercury water, fltrd, µg/L (71890)	Mercury water, unfltrd recover -able, µg/L (71900)	Molyb- denum, water, unfltrd recover -able, µg/L (01062)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, fltrd, µg/L (01090)
Mar													
01...	--	1,230	--	.68	--	86.9	<.010	<.010	.1	--	.46	<.06	--
May													
05...	592	758	.14	.19	22.0	31.0	<.010	<.010	--	.39	.30	--	E1.7
05...	*610*	*765*	*.15*	*.22*	*19.2*	*34.3*	*<.010*	*<.010*	--	*.46*	*.31*	--	*E1.3*
19...	--	--	--	--	--	--	<.010	<.010	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	368	3,080	.16	2.75	3.4	395	<.010	.011	--	.52	1.2	--	<2.0
23...	748	1,390	.28	.51	38.0	59.2	<.010	<.010	--	.40	.47	--	E1.4
Jul													
16...	592	786	.12	.22	26.1	40.7	<.010	<.010	--	.25	.24	--	<2.0
Jul													
18-19	375	2,030	.22	2.21	2.6	232	--	E.009	--	.40	.94	--	E1.9
Aug													
01-02	640	2,600	.27	2.09	5.4	351	<.010	E.008	--	.44	.90	--	<2.0
06...	664	1,090	.24	.51	44.0	74.6	<.010	<.010	--	.50	.42	--	<2.0
Aug													
28-30	493	868	.15	.47	20.1	64.3	--	--	--	.41	.38	--	<2.0
Sep													
22...	209	361	E.04	.11	45.2	83.7	--	--	--	.29	.22	--	<2.0
25...	--	*E10*	--	*<.10*	--	*5.1*	--	--	--	--	*<.20*	--	--

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 6 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Zinc, water, unfltrd recover -able, µg/L (01092)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Selen-ium, water, fltrd, µg/L (01145)	Selen-ium, water, unfltrd µg/L (01147)	1,4-Di-chloro-benzene water, unfltrd µg/L (34571)	2,4,6-Tri-chloro-phenol, water, unfltrd µg/L (34621)	2,4-Di-chloro-phenol, water, unfltrd µg/L (34601)	2,4-Di-methyl-phenol, water, unfltrd µg/L (34606)	2-Methyl-4,6-di-nitro-phenol, wat unf µg/L (34657)	4-Chloro-3-methyl-phenol, wat unf µg/L (34452)	4-Nitro-phenol, water, unfltrd µg/L (34646)	Hexa-chloro-benzene water, unfltrd µg/L (39700)
Mar													
01...	2.6	--	.53	--	E.10	--	--	--	--	--	--	--	--
May													
05...	<2.0	.43	.47	.14	.13	<.2	<.6	M	<.8	<.77	<.55	<.51	<.30
05...	*<2.0*	*.45*	*.44*	*.13*	*E.11*	*M*	*<.6*	*M*	*<.8*	*<.77*	*<.55*	*<.51*	*<.30*
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	7.2	.52	1.2	.17	.20	<.2	<.6	<.39	<.8	<.77	<.55	<.51	<.30
23...	E1.5	.64	.75	.19	.15	<.2	<.6	<.39	<.8	<.77	<.55	<.51	<.30
Jul													
16...	E1.2	.56	.59	.17	.15	<.2	<.6	<.39	<.8	<.77	<.55	<.51	<.30
Jul													
18-19	5.8	.56	1.1	.15	.17	<.2	<.6	M	<.8	--	<.55	<.51	<.30
Aug													
01-02	5.0	.52	.96	.14	.17	<.2	<.6	<.39	<.8	<.77	<.55	<.51	<.30
06...	E1.9	.54	.63	.13	.14	<.2	<.6	<.39	<.8	<.77	<.55	<.51	<.30
Aug													
28-30	E1.7	.60	.70	.12	.13	<.2	<.6	<.39	<.8	<2	<.55	<.51	<.30
Sep													
22...	<2.0	.40	.46	.09	E.10	<.2	<.6	<.39	<.8	<.77	<.55	<.51	<.30
25...	*E1.4*	--	*<.20*	--	*<.12*	*<.2*	*<.6*	*<.39*	*<.8*	*<.77*	*<.55*	*<.51*	*<.30*

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 7 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Pentachlorophenol, water, unfltrd µg/L (39032)	Organic carbon, bed sedimnt percent (01395)	1,2,4-Trichlorobenzene water, unfltrd µg/L (34551)	1,2-Dichlorobenzene water, unfltrd µg/L (34536)	1,2-Diphenylhydrazine, water, unfltrd µg/L (82626)	1,3-Dichlorobenzene water, unfltrd µg/L (34566)	2,4-Dinitrophenol, water, unfltrd µg/L (34616)	2,4-Dinitrotoluene water, unfltrd µg/L (34611)	2,6-Dinitrotoluene water, unfltrd µg/L (34626)	2-Chloronaphthalene, water, unfltrd µg/L (34581)	2-chlorophenol, water, unfltrd µg/L (34586)	2-nitrophenol, water, unfltrd µg/L (34591)	3,3'-Dichlorobenzidine, water, unfltrd µg/L (34631)
Mar													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
05...	<1	--	<.2	<.2	<.30	<.2	<1	<.6	<.43	<.2	<.42	<.4	<.4
05...	*<1*	--	*<.2*	*<.2*	*<.30*	*<.2*	*<1*	*<.6*	*<.43*	*<.2*	*<.42*	*<.4*	*<.4*
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	2.2	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	<1	--	<.2	<.2	<.30	<.2	<1	<.6	<.43	<.2	<.42	<.4	<.4
23...	<1	--	<.2	<.2	<.30	<.2	<1	<.6	<.43	<.2	<.42	<.4	--
Jul													
16...	<1	--	<.2	<.2	<.30	<.2	--	<.6	<.43	<.2	<.42	<.4	<.4
Jul													
18-19	M	--	<.2	<.2	<.30	M	--	<.6	<.43	<.2	<.42	<.4	<.4
Aug													
01-02	<1	--	<.2	<.2	<.30	<.2	--	<.6	<.43	<.2	<.42	<.4	<.4
06...	<1	--	<.2	<.2	<.30	<.2	--	<.6	<.43	<.2	<.42	<.4	<.4
Aug													
28-30	<1	--	<.2	<.2	<.30	<.2	--	<.6	<.43	<.2	<.42	<.4	<.4
Sep													
22...	<1	--	<.2	<.2	<.30	<.2	--	<.6	<.43	<.2	<.42	<.4	<.4
25...	*<1*	--	*<.2*	*<.2*	*<.30*	*<.2*	--	*<.6*	*<.43*	*<.2*	*<.42*	*<.4*	*<.4*

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 8 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	4-Bromo-phenyl phenyl ether, wat unf µg/L (34636)	4-Chloro-phenyl phenyl ether, wat unf µg/L (34641)	9H-Fluor-ene, water, unfltrd µg/L (34381)	Ace-naphth-ene, water, unfltrd µg/L (34205)	Ace-naphth-ylene, water, unfltrd µg/L (34200)	Anthra-cene, water, unfltrd µg/L (34220)	Benzo-[a]-anthra-cene, water, unfltrd µg/L (34526)	Benzo-[a]-pyrene, water, unfltrd µg/L (34247)	Benzo-[b]-fluor-anthene water, unfltrd µg/L (34230)	Benzo-[ghi]-per-ylene, water, unfltrd µg/L (34521)	Benzo-[k]-fluor-anthene water, unfltrd µg/L (34242)	Benzyl n-butyl phthal-ate, water, unfltrd µg/L (34292)	Bis(2-chloro-ethoxy) methane water, unfltrd µg/L (34278)
Mar													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
05...	<.36	<.34	<.33	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
05...	*<.36*	*<.34*	*M*	*<.28*	*<.30*	*<.39*	*<.26*	*<.33*	*<.40*	*<.4*	*<.4*	*<2*	*<.2*
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	<.36	<.34	<.33	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
23...	<.36	<.34	<.33	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
Jul													
16...	<.36	<.34	<.33	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
Jul													
18-19	<.36	<.34	M	<.28	<.30	M	<.26	<.33	M	<.4	M	<2	<.2
Aug													
01-02	<.36	<.34	M	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
06...	<.36	<.34	<.33	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
Aug													
28-30	<.36	<.34	<.33	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
Sep													
22...	<.36	<.34	<.33	<.28	<.30	<.39	<.26	<.33	<.40	<.4	<.4	<2	<.2
25...	*<.36*	*<.34*	*M*	*<.28*	*<.30*	*<.39*	*<.26*	*<.33*	*<.40*	*<.4*	*<.4*	*<2*	*<.2*

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 9 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Bis(2-chloro-ethyl) ether, water, unfltrd µg/L (34273)	Bis(2-chloro-iso-propyl) ether, wat unf µg/L (34283)	Bis(2-ethyl-hexyl) phthal-ate, wat unf µg/L (39100)	Chrys-ene, water, unfltrd µg/L (34320)	Di-benzo-[a,h]-anthra-cene, wat unf µg/L (34556)	Di-ethyl phthal-ate, water, unfltrd µg/L (34336)	Di-methyl phthal-ate, water, unfltrd µg/L (34341)	Di-n-butyl phthal-ate, water, unfltrd µg/L (39110)	Di-n-octyl phthal-ate, water, unfltrd µg/L (34596)	Fluor-anthene water, unfltrd µg/L (34376)	Hexa-chloro-buta-diene, water, unfltrd µg/L (39702)	Hexa-chloro-cyclo-penta-diene, wat unf µg/L (34386)	Hexa-chloro-ethane, water, unfltrd µg/L (34396)
Mar													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
May													
05...	<.30	<.38	<2	<.33	<.4	<.61	<.4	<1	<.6	<.30	<.2	<.4	<.2
05...	*<.30*	*<.38*	*<2*	*<.33*	*<.4*	*<.61*	*4*	*<1*	*<.6*	*<.30*	*<.2*	*<.4*	*<.2*
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	<.30	<.38	<2	<.33	<.4	<.61	E13	<1	<.6	<.30	<.2	<.4	<.2
23...	<.30	<.38	<2	<.33	<.4	<.61	<.4	<1	<.6	<.30	<.2	<.4	<.2
Jul													
16...	<.30	<.38	<2	<.33	<.4	<.61	<.4	<1	<.6	<.30	<.2	<.4	<.2
Jul													
18-19	<.30	<.38	<2	M	<.4	M	E82	<1	<.6	M	<.2	<.4	<.2
Aug													
01-02	<.30	<.38	<2	<.33	<.4	M	E28	<1	<.6	<.30	<.2	<.4	<.2
06...	<.30	<.38	<2	<.33	<.4	<.61	<.4	<1	<.6	<.30	<.2	<.4	<.2
Aug													
28-30	<.30	<.38	<2	<.33	<.4	M	E60	<1	<.6	M	<.2	<.4	<.2
Sep													
22...	<.30	<.38	<2	<.33	<.4	<.61	<.4	<1	<.6	<.30	<.2	<.4	<.2
25...	*<.30*	*<.38*	*<2*	*<.33*	*<.4*	*M*	*8*	*<1*	*<.6*	*<.30*	*<.2*	*<.4*	*<.2*

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 10 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Indeno-[1,2,3-cd]-pyrene, water, unfltrd µg/L (34403)	Isophorone water, unfltrd µg/L (34408)	Naphthalene, water, unfltrd µg/L (34696)	Nitrobenzene water, unfltrd µg/L (34447)	N-Nitroso-di-methylamine, wat unf µg/L (34438)	N-Nitroso-di-n-propylamine, wat unf µg/L (34428)	N-Nitroso-diphenylamine, wat unf µg/L (34433)	Oil and grease, water, unfltrd hexane extract mg/L (00552)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Petroleum hydrocarbons wat unf hex ext mg/L (62172)	Phenanthrene, water, unfltrd µg/L (34461)	Phenol, water, unfltrd µg/L (34694)
Mar													
01...	--	--	--	--	--	--	--	--	5.8	8.6	--	--	--
May													
05...	<.4	M	<.32	<.2	<.2	<.4	<.4	E4.4	4.8	5.4	<5.0	<.32	<.4
05...	*<.4*	*M*	*<.32*	*<.2*	*<.2*	*<.4*	*<.4*	*E4.5*	*4.7*	*5.4*	*<5.0*	*<.32*	*<.4*
19...	--	--	--	--	--	--	--	--	5.3	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun													
05-07	<.4	<.4	<.32	<.2	<.2	<.4	<.4	E3.4	12.2	20.5	<5.0	<.32	<.4
23...	<.4	M	<.32	<.2	<.2	<.4	<.4	E4.9	8.1	8.3	<5.0	<.32	<.4
Jul													
16...	<.4	<.4	<.32	<.2	<.2	<.4	<.4	E3.4	4.3	4.9	<5.0	<.32	<.4
Jul													
18-19	M	M	M	<.2	<.2	<.4	<.4	--	6.0	7.5	--	M	<.4
Aug													
01-02	<.4	M	<.32	<.2	<.2	<.4	<.4	E4.8	6.4	8.4	<5.0	M	<.4
06...	<.4	<.4	<.32	<.2	<.2	<.6000	<.4	E3.0	7.5	8.2	<5.0	<.32	<.4
Aug													
28-30	<.4	M	M	<.2	<.2	<.4	<.4	E3.0	5.8	8.4	<5.0	M	<.4
Sep													
22...	<.4	M	<.32	<.2	<.2	<.4	<.4	E2.5	5.4	4.9	<5.0	<.32	<.4
25...	*<.4*	*<.4*	*<.32*	*<.2*	*<.2*	*<.4*	*<.4*	*E3.4*	--	*<.6*	*<5.0*	*M*	*E.2*

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 11 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Pyrene, water, unfltrd µg/L (34469)	Bed sedi-ment, wet sieved, percent <.062mm (69589)	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Data base number	Medium code
Mar						
01...	--	--	--	37	01	WS
May						
05...	<.35	--	--	6	01	WS
05...	*<.35*	--	--	*5*	*04*	*WSQ*
19...	--	--	--	--	01	WS
19...	--	7	--	--	01	SB
Jun						
05-07	<.35	--	--	160	01	WS
23...	<.35	--	89	14	01	WS
Jul						
16...	<.35	--	--	6	01	WS
Jul						
18-19	M	--	96	112	01	WS
Aug						
01-02	<.35	--	95	101	01	WS
06...	<.35	--	--	16	01	WS
Aug						
28-30	M	--	97	21	01	WS
Sep						
22...	<.35	--	87	8	01	WS
25...	*<.35*	--	--	--	*04*	*OAQ*