

Water-Data Report 2010

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 mi².

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 ft³/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 25, 26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.4	49	42	111	73	58	89	15	44	4.4	5.9	0.97
2	2.5	85	305	87	86	55	71	15	42	4.1	5.9	0.80
3	2.1	24	1,240	69	413	60	61	14	43	3.8	4.7	0.67
4	1.8	12	210	60	365	59	53	14	38	3.5	4.7	0.51
5	1.6	6.8	209	55	996	53	48	13	28	3.2	5.5	0.39
6	1.5	4.0	209	52	2,200	47	45	12	23	3.0	31	0.35
7	1.3	3.6	122	49	345	45	41	11	22	2.7	18	0.27
8	1.0	3.5	89	50	215	44	38	10	19	2.3	7.6	0.24
9	0.86	3.3	1,260	46	169	43	38	9.1	16	2.4	4.8	0.21
10	0.73	3.7	360	42	191	42	34	8.0	16	2.0	3.6	0.15
11	0.63	1,130	153	e41	144	43	31	7.9	16	1.8	2.9	0.14
12	0.58	1,420	107	40	121	61	30	8.5	14	1.8	2.7	0.15
13	0.67	971	190	40	117	193	29	8.8	18	3.2	2.4	0.10
14	0.63	219	276	39	114	275	26	9.0	18	78	2.0	0.07
15	0.72	117	145	39	100	194	26	8.3	14	23	1.8	0.06
16	0.75	70	106	38	112	112	27	11	41	8.0	1.7	0.05
17	0.72	48	80	441	95	83	26	99	62	31	1.6	0.04
18	0.67	39	71	294	80	73	23	441	22	26	1.4	0.04
19	0.67	132	345	145	71	64	21	92	14	294	2.4	0.04
20	0.67	122	275	108	65	55	21	57	11	53	3.2	0.04
21	0.68	71	212	99	62	51	24	35	9.6	23	2.5	0.04
22	0.62	48	171	300	71	49	27	76	8.5	16	2.0	0.03
23	0.52	751	142	172	113	49	24	874	7.5	10	2.0	0.03
24	0.87	416	126	125	95	45	23	201	7.1	7.1	7.0	0.03
25	1.7	158	898	1,530	133	42	24	90	6.9	5.8	4.7	0.02
26	1.0	102	1,060	298	96	44	26	55	6.8	7.6	4.4	0.02
27	0.90	83	246	149	74	44	22	37	9.8	6.3	3.3	0.17
28	8.1	70	155	109	65	41	19	43	7.0	16	2.3	1.9
29	25	52	118	87	---	673	16	577	5.7	9.6	1.8	1.6
30	9.6	45	94	92	---	243	16	134	4.8	6.7	1.4	490
31	4.8	---	101	87	---	126	---	63	---	5.0	1.1	---
Total	77.29	6,258.9	9,117	4,894	6,781	3,066	999	3,048.6	594.7	664.3	146.3	499.13
Mean	2.49	209	294	158	242	98.9	33.3	98.3	19.8	21.4	4.72	16.6
Max	25	1,420	1,260	1,530	2,200	673	89	874	62	294	31	490
Min	0.52	3.3	42	38	62	41	16	7.9	4.8	1.8	1.1	0.02
Cfsm	0.03	2.67	3.76	2.02	3.10	1.26	0.43	1.26	0.25	0.27	0.06	0.21
In.	0.04	2.98	4.34	2.33	3.23	1.46	0.48	1.45	0.28	0.32	0.07	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2010, BY WATER YEAR (WY)

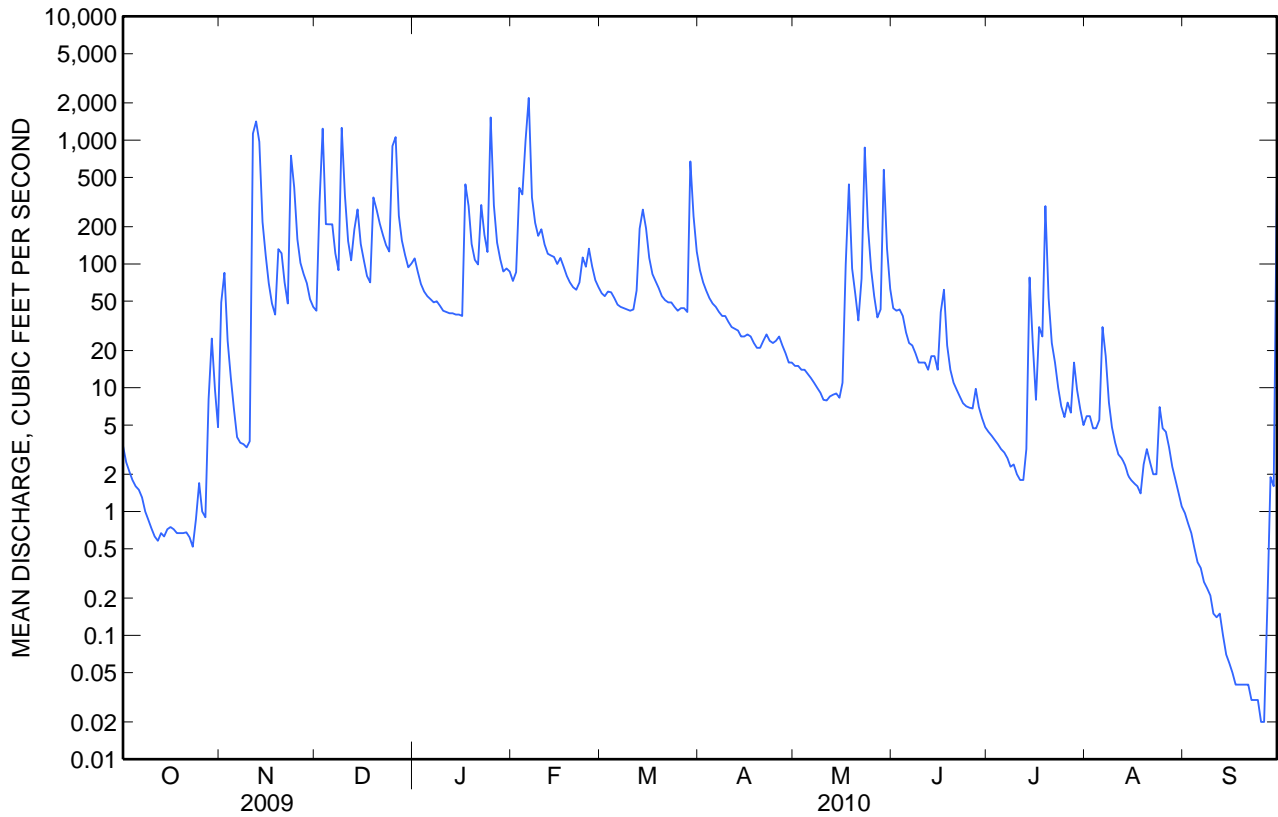
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.2	51.8	79.7	110	117	165	107	52.5	41.8	30.9	24.7	51.0
Max	222	209	294	257	379	456	346	203	194	141	125	329
(WY)	(2003)	(2010)	(2010)	(1998)	(1998)	(1993)	(2003)	(2003)	(1995)	(2003)	(2003)	(1996)
Min	0.14	0.07	5.06	7.50	21.8	12.7	17.1	7.48	2.08	0.31	0.19	0.01
(WY)	(1994)	(2008)	(2002)	(2008)	(2009)	(2006)	(1995)	(2002)	(2002)	(2002)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1987 - 2010	
Annual total	32,568.94		36,146.22			
Annual mean	89.2		99.0		71.7	
Highest annual mean					195	2003
Lowest annual mean					14.8	2002
Highest daily mean	1,420	Nov 12	2,200	Feb 6	6,500	Sep 6, 1996
Lowest daily mean	0.52	Oct 23	0.02	Sep 25	0.00	Aug 19, 1988
Annual seven-day minimum	0.65	Oct 17	0.03	Sep 20	0.00	Aug 19, 1988
Maximum peak flow			3,960	Feb 6	^a 11,600	Sep 6, 1996
Maximum peak stage			6.98	Feb 6	^a 13.26	Sep 6, 1996
Instantaneous low flow			^a 0.02	Sep 24	^a 0.00	Aug 19, 1998
Annual runoff (cfsm)	1.14		1.27		0.917	
Annual runoff (inches)	15.49		17.19		12.46	
10 percent exceeds	211		211		143	
50 percent exceeds	22		29		23	
90 percent exceeds	1.6		0.72		1.5	

^a See Remarks



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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 2009 TO SEPTEMBER 2010

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Begin time	End date	End time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Color, water, filtered, platinum cobalt units (00080)	Discharge, instantaneous, ft ³ /s (00061)
10-08-2009	0945	--	--	Surface water	Regular	760	--	1.0
10-28-2009	0840	10-28-2009	1908	Surface water	Composite (time)	--	--	--
11-01-2009	1326	11-02-2009	0855	Surface water	Composite (time)	--	--	--
11-11-2009	0304	--	--	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	--
11-11-2009	0304	11-11-2009	2233	Surface water	Composite (time)	--	150	--
11-17-2009	0930	--	--	Surface water	Regular	760	--	49
12-09-2009	1230	--	--	Surface water	Regular	748	--	2,470
01-05-2010	1030	--	--	Surface water	Regular	754	--	55
02-05-2010	1430	02-06-2010	0800	Surface water	Composite (time)	--	--	--
02-06-2010	1243	02-07-2010	1228	Surface water	Composite (time)	--	--	--
02-16-2010	1130	--	--	Surface water	Regular	750	--	116
03-10-2010	1130	--	--	Surface water	Regular	752	--	41
03-10-2010	1131	--	--	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	--
04-22-2010	1053	04-22-2010	1148	Surface water	Composite (time)	751	--	--
04-22-2010	1130	--	--	Surface water	Regular	751	--	27
05-11-2010	1000	--	--	<i>QC sample - Artificial</i>	<i>Blank</i>	--	--	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conduc tance, water, unfiltered, μS/cm at 25 °C (00095)	Tempera ture, water, °C (00010)	Sampler type (84164)	Sampling method (82398)	Dissolved solids dried at 105 degrees Celsius, water, filtered, milligrams per liter (00515)
10-08-2009	8.3	84	6.9	107	16.0	Grab sample	Grab sample(dip)	69
10-28-2009	--	--	7.1	106	--	Sampler point auto	Point sample	65
11-01-2009	--	--	7.2	96	--	Sampler point auto	Point sample	82
11-11-2009	--	--	--	--	--	<i>Sampler point auto</i>	<i>Point sample</i>	--
11-11-2009	--	--	5.8	69	--	Sampler point auto	Point sample	66
11-17-2009	10.3	95	6.9	77	11.3	US DH-81 Teflon	EWI	65
12-09-2009	11.2	95	6.3	38	7.5	US DH-81 Teflon	EWI	52
01-05-2010	14.1	99	5.8	77	.4	US DH-81 Teflon	EWI	66
02-05-2010	--	--	7.0	48	--	Sampler point auto	Point sample	41
02-06-2010	--	--	6.3	50	--	Sampler point auto	Point sample	43
02-16-2010	13.0	100	7.1	70	3.7	US DH-81 Teflon	EWI	56
03-10-2010	11.8	106	7.8	82	10.3	US DH-81 Teflon	EWI	59
03-10-2010	--	--	--	--	--	<i>US DH-81 Teflon</i>	<i>EWI</i>	55
04-22-2010	--	--	7.8	94	--	Sampler point auto	Point sample	56
04-22-2010	10.6	105	7.7	92	14.5	US DH-81 Teflon	EWI	56
05-11-2010	--	--	--	--	--	<i>Sampler point auto</i>	<i>Point sample</i>	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Total solids dried at 105 degrees Celsius, water, unfiltered, milligrams per liter (00500)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (00419)	Alkalinity, water, filtered, fixed endpoint titration, laboratory, mg/L as CaCO ₃ (29801)
10-08-2009	63	36.1	< 15	78	8.34	3.70	2.59	5.44	--	44
10-28-2009	70	37.5	< 15	84	8.91	3.69	2.88	5.33	--	42
11-01-2009	92	32.9	67	146	7.73	3.30	3.29	5.24	--	35
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	71	19.9	510	563	4.64	2.02	3.24	3.23	16.7	19
11-17-2009	68	24.6	< 15	77	5.71	2.50	2.18	4.30	--	22
12-09-2009	58	16.3	232	327	3.75	1.67	2.12	2.21	--	15
01-05-2010	72	24.3	< 15	75	5.68	2.45	1.03	4.55	--	24
02-05-2010	47	13.3	143	414	3.00	1.40	1.44	2.83	--	12
02-06-2010	38	14.8	33	83	3.39	1.55	1.24	2.75	--	13
02-16-2010	65	20.7	< 15	66	4.83	2.10	.88	4.18	--	21
03-10-2010	68	26.4	< 15	60	6.39	2.52	.92	5.21	--	27
03-10-2010	74	26.1	< 15	62	6.33	2.50	.92	5.18	--	27
04-22-2010	57	29.8	< 15	63	7.21	2.87	1.06	5.70	--	33
04-22-2010	32	29.5	< 15	58	7.06	2.87	1.04	5.76	--	32
05-11-2010	< 12	E .21	--	26	.06	E .013	< .06	< .10	--	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Alkalinity, water, filtered, inflection- point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Bicarbonate, water, filtered, inflection- point, incremental titration method, field, mg/L (00453)	Bi carbonate, water, unfiltered, inflection- point, incremental titration method, field, mg/L (00450)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)
10-08-2009	38.2	46.6	--	E .01	6.02	--	--	2.12	.35
10-28-2009	--	--	--	E .01	6.23	--	--	2.04	.29
11-01-2009	--	--	--	E .02	5.94	--	--	3.08	.61
11-11-2009	--	--	--	--	--	--	--	--	--
11-11-2009	--	--	20.3	< .02	4.70	< .08	7.82	4.72	2.0
11-17-2009	18.4	22.4	--	E .01	5.53	--	--	5.65	.44
12-09-2009	11.4	13.9	--	< .02	2.96	--	--	4.22	1.2
01-05-2010	21.2	25.9	--	.02	6.29	--	--	4.69	.21
02-05-2010	--	--	--	< .02	4.54	--	--	4.04	1.1
02-06-2010	--	--	--	E .01	3.78	--	--	4.84	.44
02-16-2010	16.3	19.8	--	E .02	6.18	--	--	4.62	.18
03-10-2010	19.6	23.9	--	E .02	6.82	--	--	3.83	.22
03-10-2010	21.4	26.1	--	E .02	6.86	--	--	3.83	.24
04-22-2010	27.7	33.8	--	E .02	7.06	--	--	2.50	.27
04-22-2010	28.1	34.3	--	.02	7.04	--	--	2.51	.26
05-11-2010	--	--	--	< .02	< .12	--	--	< .18	< .10

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WATER-QUALITY DATA
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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos phate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Aluminum, water, filtered, μg/L (01106)	Aluminum, water, unfiltered, recover able, μg/L (01105)	Cadmium, water, filtered, μg/L (01025)
10-08-2009	< .020	E .03	--	E .006	.030	E .39	24.6	97	< .02
10-28-2009	< .020	< .04	--	.009	.029	< .33	44.1	86	< .02
11-01-2009	< .020	.07	--	.010	.120	.68	100	627	E .02
11-11-2009	--	--	--	--	--	--	--	--	--
11-11-2009	E .018	.234	.004	.031	.585	2.2	302	3,800	< .02
11-17-2009	E .014	.51	--	.022	.058	.95	131	251	< .02
12-09-2009	< .020	.22	--	.038	.358	1.4	328	2,140	E .01
01-05-2010	< .020	.70	--	.013	.029	.92	69.4	149	< .02
02-05-2010	< .020	.23	--	E .007	.453	1.4	230	2,350	.02
02-06-2010	E .012	.35	--	.015	.077	.79	186	562	E .02
02-16-2010	< .020	.58	--	.011	.028	.76	69.1	166	< .02
03-10-2010	< .020	.29	--	E .006	.018	.52	29.0	96	< .02
03-10-2010	< .020	.30	--	E .006	.018	.54	27.5	103	< .02
04-22-2010	E .014	.35	--	E .006	.023	.62	28.8	148	.02
04-22-2010	E .013	.35	--	E .007	.022	.60	35.6	126	< .02
05-11-2010	--	< .04	--	--	< .008	< .14	--	13	--

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WATER-QUALITY DATA
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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Cadmium, water, unfiltered, μg/L (01027)	Chromium, water, filtered, μg/L (01030)	Chromium, water, unfiltered, recover able, μg/L (01034)	Cobalt, water, unfiltered, recoverabl e, microgram s per liter (01037)	Copper, water, filtered, μg/L (01040)	Copper, water, unfiltered, recover able, μg/L (01042)	Iron, water, filtered, μg/L (01046)	Iron, water, unfiltered, recover able, μg/L (01045)	Lead, water, filtered, μg/L (01049)	Lead, water, unfiltered, recover able, μg/L (01051)
10-08-2009	< .04	E .10	< .42	--	E .60	E .78	310	580	.06	.23
10-28-2009	< .04	E .07	< .42	--	E .52	E .79	276	382	.06	.14
11-01-2009	.05	.16	.67	--	E .99	1.9	420	1,770	.11	1.18
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	.09	.33	4.1	7.1	2.0	7.6	621	8,000	.23	7.63
11-17-2009	< .04	.24	E .32	--	1.3	1.5	442	735	.15	.40
12-09-2009	.07	.36	2.4	--	1.7	8.4	517	3,920	.25	4.06
01-05-2010	< .04	.12	E .36	--	< 1.0	E 1.2	377	620	.09	.34
02-05-2010	.05	.21	3.7	--	1.2	4.5	392	4,350	.16	5.03
02-06-2010	< .04	.23	.61	--	1.7	1.5	321	835	.21	.87
02-16-2010	< .04	.12	E .40	--	< 1.0	< 1.4	242	503	.09	.19
03-10-2010	< .04	E .11	.45	--	< 1.0	< 1.4	227	478	.06	.14
03-10-2010	< .04	E .12	E .26	--	E .52	< 1.4	218	485	.07	.15
04-22-2010	< .04	E .11	< .42	--	E .53	E .84	368	638	.09	.17
04-22-2010	< .04	E .10	< .42	--	E .53	< 1.4	378	631	.09	.16
05-11-2010	< .04	--	< .42	--	--	< 1.4	--	33	--	< .06

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WATER-QUALITY DATA
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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Manganese, water, filtered, μg/L (01056)	Manganese, water, unfiltered, recoverable, μg/L (01055)	Mercury, water, filtered, μg/L (71890)	Mercury, water, unfiltered, recoverable, μg/L (71900)	Molybdenum, water, unfiltered, recoverable, micrograms per liter (01062)	Nickel, water, filtered, μg/L (01065)	Nickel, water, unfiltered, recoverable, μg/L (01067)	Silver, water, unfiltered, recoverable, μg/L (01077)	Zinc, water, filtered, μg/L (01090)	Zinc, water, unfiltered, recoverable, μg/L (01092)
10-08-2009	37.2	114	< .010	< .010	--	.29	E .26	--	< 2.8	E 1.2
10-28-2009	25.8	54.3	< .010	< .010	--	.28	E .27	--	< 2.8	< 2.0
11-01-2009	27.8	414	< .010	< .010	--	.42	.67	--	< 2.8	4.1
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	27.6	1,350	< .010	.028	E .1	.80	2.4	.04	E 2.5	19.4
11-17-2009	24.9	34.9	< .010	< .010	--	.46	.38	--	< 2.8	E 1.8
12-09-2009	45.6	389	E .006	.017	--	.65	1.6	--	3.0	12.8
01-05-2010	24.0	29.9	< .010	< .010	--	.36	E .31	--	< 2.8	21.6
02-05-2010	38.9	438	< .010	.023	--	.46	2.2	--	< 2.8	18.9
02-06-2010	29.7	66.0	< .010	E .007	--	.41	.52	--	E 1.5	2.9
02-16-2010	18.8	22.1	< .010	< .010	--	.29	E .26	--	< 2.8	E 1.0
03-10-2010	16.9	20.9	< .010	< .010	--	< .12	E .33	--	< 2.8	< 2.0
03-10-2010	17.0	21.2	< .010	< .010	--	< .12	< .36	--	< 2.8	< 2.0
04-22-2010	9.4	20.3	< .010	< .010	--	.16	E .20	--	< 2.8	< 2.0
04-22-2010	9.5	17.9	< .010	< .010	--	.16	E .21	--	< 2.8	< 2.0
05-11-2010	--	15.1	--	< .010	--	--	< .36	--	--	< 2.0

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Arsenic, water, filtered, μg/L (01000)	Arsenic, water, unfiltered, μg/L (01002)	Selenium, water, filtered, μg/L (01145)	Selenium, water, unfiltered, μg/L (01147)	1,4- Dichloro benzene, water, unfiltered, recover able, μg/L (34571)	2,4,6- Trichlorop henol, water, unfiltered, recoverabl e, microgram s per liter (34621)	2,4- Dichloroph enol, water, unfiltered, recoverabl e, microgram s per liter (34601)	2,4- Dimethylp henol, water, unfiltered, recoverabl e, microgram s per liter (34606)	2-Methyl- 4,6- dinitrophe nol, water, unfiltered, recoverabl e, microgram s per liter (34657)	4-Chloro-3- methylphe nol, water, unfiltered, recoverabl e, microgram s per liter (34452)
10-08-2009	.39	.52	.10	E .09	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
10-28-2009	.30	.37	.11	E .09	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
11-01-2009	.48	.86	.13	.13	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	.51	1.8	.18	.26	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
11-17-2009	.33	.43	.12	.12	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
12-09-2009	.42	1.2	.16	.17	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
01-05-2010	.19	.26	.10	E .08	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
02-05-2010	.31	.87	.13	.14	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
02-06-2010	.26	.31	.11	.10	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
02-16-2010	.17	.31	.08	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
03-10-2010	.20	.22	.08	E .08	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
03-10-2010	.19	.23	.08	E .07	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55
04-22-2010	.28	.30	.07	.11	< 0.22	< 0.34	M	< .8	< 0.76	< 0.55
04-22-2010	.30	.33	.08	E .09	< 0.22	< 0.34	M	< .8	< 0.76	< 0.55
05-11-2010	--	< .18	--	< .10	< 0.22	< 0.34	< 0.36	< .8	< 0.76	< 0.55

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	4-Nitrophenol, water, unfiltered, recoverable, micrograms per liter (34646)	Hexachlorobenzene, water, unfiltered, recoverable, micrograms per liter (39700)	Pentachlorophenol, water, unfiltered, recoverable, micrograms per liter (39032)	1,2,4-Trichlorobenzene, water, unfiltered, recoverable, μg/L (34551)	1,2-Dichlorobenzene, water, unfiltered, recoverable, μg/L (34536)	1,2-Diphenylhydrazine, water, unfiltered, recoverable, micrograms per liter (82626)	1,3-Dichlorobenzene, water, unfiltered, recoverable, μg/L (34566)	2,4-Dinitrophenol, water, unfiltered, recoverable, micrograms per liter (34616)	2,4-Dinitrotoluene, water, unfiltered, recoverable, micrograms per liter (34611)	2,6-Dinitrotoluene, water, unfiltered, recoverable, micrograms per liter (34626)
10-08-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
10-28-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
11-01-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
11-17-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
12-09-2009	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
01-05-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
02-05-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
02-06-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
02-16-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	--	< 0.56	< 0.4
03-10-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
03-10-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
04-22-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
04-22-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4
05-11-2010	< 0.51	< 0.30	< 0.6	< 0.26	< 0.20	< 0.30	< 0.22	< 1	< 0.56	< 0.4

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	2- Chloronap hthalene, water, unfiltered, recoverabl e, microgram s per liter (34581)	2- Chlorophe nol, water, unfiltered, recoverabl e, microgram s per liter (34586)	2- Nitrophen ol, water, unfiltered, recoverabl e, microgram s per liter (34591)	3,3'- Dichlorobe nzidine, water, unfiltered, recoverabl e, microgram s per liter (34631)	4- Bromophe nyl phenyl ether, water, unfiltered, recoverabl e, microgram s per liter (34636)	4- Chlorophe nyl phenyl ether, water, unfiltered, recoverabl e, microgram s per liter (34641)	9H- Fluorene, water, unfiltered, recoverabl e, microgram s per liter (34381)	Acenaphth ene, water, unfiltered, recoverabl e, microgram s per liter (34205)	Acenaphth ylene, water, unfiltered, recoverabl e, microgram s per liter (34200)	Anthracen e, water, unfiltered, recoverabl e, microgram s per liter (34220)
	10-08-2009	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30
10-28-2009	< 0.16	< 0.26	< 0.40	--	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
11-01-2009	< 0.16	< 0.26	< 0.40	--	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
11-17-2009	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
12-09-2009	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	M
01-05-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
02-05-2010	< 0.16	< 0.26	M	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
02-06-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
02-16-2010	< 0.16	< 0.26	M	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
03-10-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
03-10-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
04-22-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	M	< 0.28	< 0.30	< 0.39
04-22-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39
05-11-2010	< 0.16	< 0.26	< 0.40	< 0.42	< 0.24	< 0.34	< 0.33	< 0.28	< 0.30	< 0.39

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Benzo[a]anthracene, water, unfiltered, recoverable, e, micrograms per liter (34526)	Benzo[a]pyrene, water, unfiltered, recoverable, e, micrograms per liter (34247)	Benzo[b]fluoranthene, water, unfiltered, recoverable, e, micrograms per liter (34230)	Benzo[ghi]perylene, water, unfiltered, recoverable, e, micrograms per liter (34521)	Benzo[k]fluoranthene, water, unfiltered, recoverable, e, micrograms per liter (34242)	Benzyl n-butyl phthalate, water, unfiltered, recoverable, e, micrograms per liter (34292)	Bis(2-chloroethoxy)methane, water, unfiltered, recoverable, e, micrograms per liter (34278)	Bis(2-chloroethyl) ether, water, unfiltered, recoverable, e, micrograms per liter (34273)	Bis(2-chloroisopropyl) ether, water, unfiltered, recoverable, e, micrograms per liter (34283)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, e, micrograms per liter (39100)
10-08-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	M
10-28-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
11-01-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 4
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
11-17-2009	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
12-09-2009	< 0.26	M	M	< 0.38	M	< 2	< 0.24	< 0.30	< 0.14	< 2
01-05-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
02-05-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
02-06-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
02-16-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
03-10-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
03-10-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
04-22-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
04-22-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2
05-11-2010	< 0.26	< 0.33	< 0.30	< 0.38	< 0.30	< 2	< 0.24	< 0.30	< 0.14	< 2

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Chrysene, water, unfiltered, recoverable, microgram s per liter (34320)	Dibenzo[a, h]anthracene, water, unfiltered, recoverable, microgram s per liter (34556)	Diethyl phthalate, water, unfiltered, recoverable, microgram s per liter (34336)	Dimethyl phthalate, water, unfiltered, recoverable, microgram s per liter (34341)	Di-n-butyl phthalate, water, unfiltered, recoverable, microgram s per liter (39110)	Di-n-octyl phthalate, water, unfiltered, recoverable, microgram s per liter (34596)	Fluoranthene, water, unfiltered, recoverable, microgram s per liter (34376)	Hexachloro butadiene, water, unfiltered, recoverable, μg/L (39702)	Hexachloro cyclopentadiene, water, unfiltered, recoverable, microgram s per liter (34386)	Hexachloro ethane, water, unfiltered, recoverable, μg/L (34396)
10-08-2009	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
10-28-2009	< 0.33	< 0.42	< 0.61	E 24	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
11-01-2009	< 0.33	< 0.42	< 0.61	E 10	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	< 0.33	< 0.42	< 0.61	17	< 2	< 0.6	M	< 0.24	< 0.50	< 0.24
11-17-2009	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
12-09-2009	M	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
01-05-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
02-05-2010	< 0.33	< 0.42	< 0.61	10	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
02-06-2010	< 0.33	< 0.42	< 0.61	4	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
02-16-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
03-10-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
03-10-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
04-22-2010	< 0.33	< 0.42	M	11	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
04-22-2010	< 0.33	< 0.42	< 0.61	< 0.36	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24
05-11-2010	< 0.33	< 0.42	< 0.61	3	< 2	< 0.6	< 0.30	< 0.24	< 0.50	< 0.24

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[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Indeno[1,2,3-cd]pyrene, water, unfiltered, recoverable, micrograms per liter (34403)	Isophorone, water, unfiltered, recoverable, micrograms per liter (34408)	Naphthalene, water, unfiltered, recoverable, μg/L (34696)	Nitrobenzene, water, unfiltered, recoverable, micrograms per liter (34447)	N-Nitrosodimethylamine, water, unfiltered, recoverable, micrograms per liter (34438)	N-Nitrosodipropylamine, water, unfiltered, recoverable, micrograms per liter (34428)	N-Nitrosodiphenylamine, water, unfiltered, recoverable, micrograms per liter (34433)	Oil and grease, water, unfiltered, hexane extraction, recoverable, milligrams per liter (00552)	Organic carbon, water, filtered, mg/L (00681)	Organic carbon, water, unfiltered, mg/L (00680)
10-08-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 3.0	4.8	5.1
10-28-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 1.8	4.7	5.2
11-01-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	< 5.0	8.1	9.6
11-11-2009	--	--	--	--	--	--	--	--	--	--
11-11-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	< 5.0	11.8	24.0
11-17-2009	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 3.1	7.2	7.0
12-09-2009	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.5	10.4	20.4
01-05-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.1	3.7	3.2
02-05-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 1.60	6.8	8.7
02-06-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.70	5.6	6.5
02-16-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.90	3.3	3.0
03-10-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 3.00	2.2	2.7
03-10-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 2.80	2.2	2.6
04-22-2010	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 1.30	2.9	3.3
04-22-2010	< 0.38	M	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 1.70	3.0	3.0
05-11-2010	< 0.38	< 0.26	< 0.22	< 0.26	< 0.24	< 0.4	< 0.28	E 1.40	--	< .6

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 14 of 14

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Begin date	Phenanthrene, water, unfiltered, recoverable,	Phenol, water, unfiltered, recoverable,	Pyrene, water, unfiltered, recoverable,	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm	Suspended sediment concentration, mg/L
	micrograms per liter (34461)	micrograms per liter (34694)	micrograms per liter (34469)	(70331)	(80154)
10-08-2009	< 0.32	< .3	< 0.35	99	23
10-28-2009	< 0.32	< .3	< 0.35	100	3
11-01-2009	< 0.32	< .3	< 0.35	97	95
11-11-2009	--	--	--	--	605
11-11-2009	< 0.32	< .3	< 0.35	82	611
11-17-2009	< 0.32	< .3	< 0.35	99	35
12-09-2009	< 0.32	< .3	< 0.35	89	297
01-05-2010	< 0.32	< .3	< 0.35	100	4
02-05-2010	< 0.32	< .3	< 0.35	85	388
02-06-2010	< 0.32	< .3	< 0.35	96	39
02-16-2010	< 0.32	< .3	< 0.35	94	6
03-10-2010	< 0.32	< .3	< 0.35	97	5
03-10-2010	< 0.32	< .3	< 0.35	83	6
04-22-2010	< 0.32	< .3	< 0.35	80	7
04-22-2010	< 0.32	< .3	< 0.35	86	21
05-11-2010	< 0.32	E.1	< 0.35	--	--