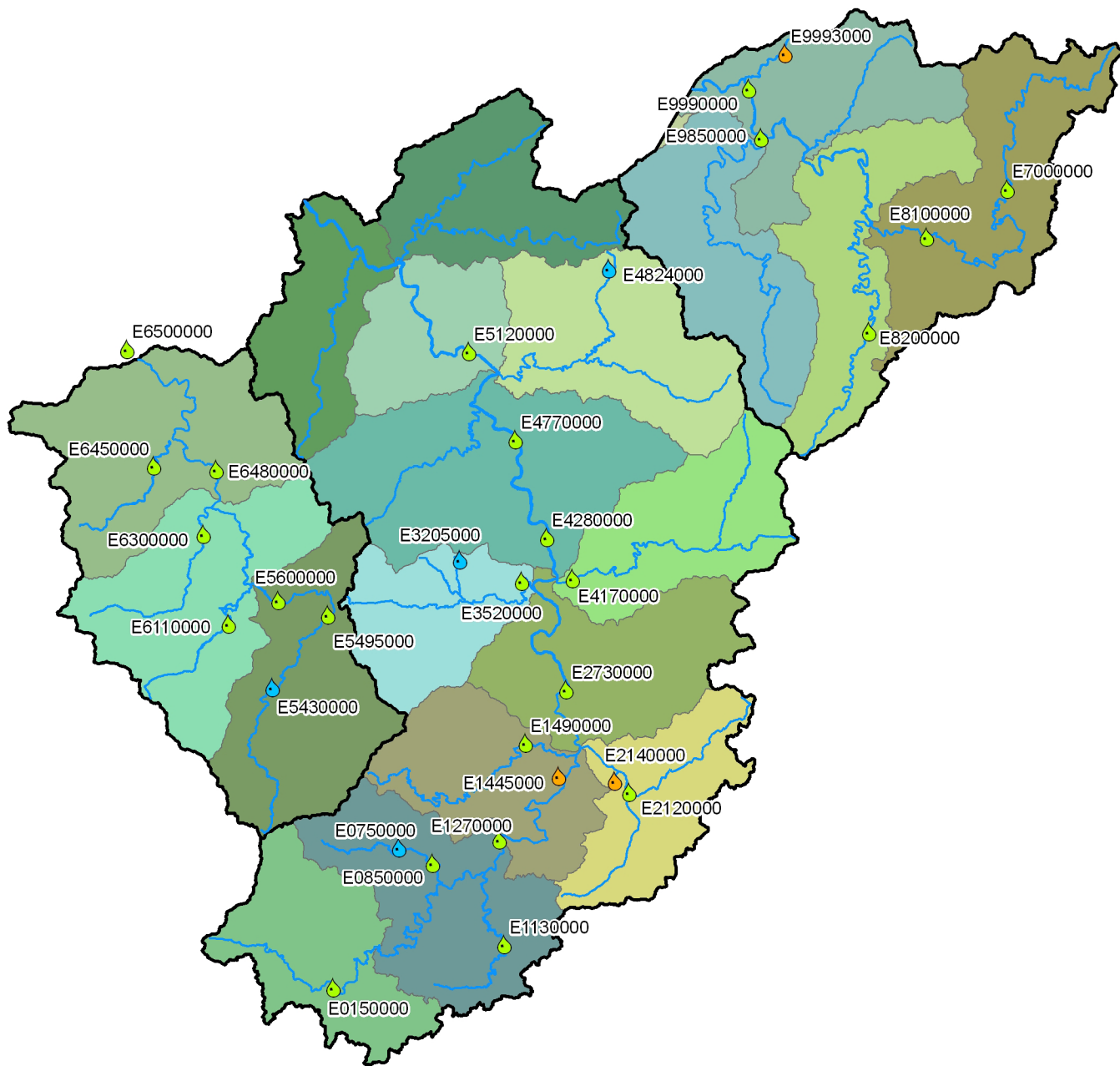





Appendix III

Ambient Data Sheets

Ambient Monitoring Sites in the French Broad River Basin



-  Ambient Monitoring System Site
-  Random Ambient Monitoring System Site 2007-2008
-  Random Ambient Monitoring System Site 2009-2010

SITE ID	LOCATION	10-DIGIT HU	AU #	ACTIVE
Upper French Broad River Subbasin				
E0150000	French Broad River @ US 178 @ Rosman	0601010501	6-(1)	Yes
E8500000	Davidson River @ US 64 near Brevard	0601010502	6-34-(15.5)	Yes
E1130000	Little River Upstream of High Falls @ Dupont Plant near Cedar Mountain	0601010502	6-38-(1)	No
E1270000	French Broad River @ SR 1503 @ Blantyre	0601010502	6-(27)c	Yes
E1490000	Mills River @ end of SR 1337 near Mills River	0601010504	6-54-(1)b	Yes
E2120000	Mud Creek @ SR 1508 near Balfour	0601010503	6-55c	Yes
E2730000	French Broad River @ SR 3495 Glenn Bridge Road near Skyland	0601010507	6-(54.5)b	Yes
E3520000	Hominy Creek @ SR 3413 near Asheville	0601010505	6-76d	Yes
E4170000	Swannanoa River @ US 25 Biltmore Avenue @ Asheville	0601010506	6-78d	Yes
E4280000	French Broad River @ SR 1348 @ Asheville, Cross Reference E3420000	0601010509	6-(54.5)c	Yes
E4770000	French Broad River @ SR 1634 @ Alexander	0601010509	6-(54.5)d	Yes
E5120000	French Broad River @ Blennerhassett Island @ Marshall	0601010511	6-(54.5)f	Yes
E1445000	Unnamed Tributary to Fench Broad River @ SR 1314 near Mills River	0601010504	6-(47.5)ut23	2007-2008
E2140000	Unnamed Tributary to Mud Creek @ Hillgirt	0601010503	6-55cut15	2007-2008
E0750000	Davidson River off US 276 near Jackson	0601010502	6-34-(1)	2009-2010
E3205000	Unnamed Tributary to Little Pole Creek off SR 1223 near New Chandler	0601010505	6-76-6-2	2009-2010
E4824000	Holcombe Branch off SR 1348 near Mars Hill	0601010508	6-96-10-2-1	2009-2010
Pigeon River Subbasin				
E5495000	Pigeon River @ NC 215 near Canton	0601010601	5-(6.5)	Yes
E5600000	Pigeon River @ SR 1642 @ Clyde	0601010601	5-(7)c	Yes
E6110000	Richland Creek @ SR 1184 near Waynesville	0601010602	5-16-(11.5)c	Yes
E6300000	Jonathans Creek @ US 276 near Cove Creek	0601010602	5-26-(7)	Yes
E6450000	Cataloochee Creek @ 1395 near Cataloochee	0601010603	5-41	Yes
E6480000	Pigeon River @ SR 1338 near Hepco	0601010603	5-(7)d	Yes
E6500000	Pigeon River @ Waterville, Tennessee	0601010604	N/A	Yes
E5430000	Inman Branch @ SR 1119 near Bethel	0601010601	5-2-16	2009-2010
Nolichucky River Subbasin				
E7000000	North Toe River @ US 19E near Ingalls	0601010801	7-2-(21.5)	Yes
E8100000	North Toe River @ SR 1162 @ Penland	0601010801	7-2-(27.7)b	Yes
E8200000	South Toe River @ SR 1168 near Celo	0601010802	7-2-52-(1)	Yes
E9850000	Cane River @ SR 1343 near Sioux	0601010803	7-3-(13.7)b	Yes
E9990000	Nolichucky River beside SR 1321 @ Poplar	0601010806	7	Yes
E9993000	Hollow Poplar Creek at SR 1321 @ Upper Poplar	0601010806	7-10	2007-2008

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality
Basinwide Assessment Report

D-4

Location: FRENCH BROAD RIV AT US 178 AT ROSMAN

Station #: E0150000

Hydrologic Unit Code: 06010105

Latitude: 35.14200

Longitude: -82.82401

Stream class: B Tr

Agency: NCAMBNT

NC stream index: 6-(1)

Time period: 01/28/2004 to 12/08/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	<6	0	0		8	8.4	9.1	10.4	11.9	13	14.9
pH (SU)	52	0	<6	5	9.6		5.4	5.9	6.6	6.7	6.9	7	7.1
	52	0	>9	0	0		5.4	5.9	6.6	6.7	6.9	7	7.1
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				13	15	16	17	20	23	60
Water Temperature (°C)	53	0	>29	0	0		2	3.9	8.7	12.5	17.5	19.2	21.8
Other													
TSS (mg/L)	20	15	N/A				2.5	2.5	2.5	4.8	6.2	6.2	7.5
Turbidity (NTU)	54	4	>10	5	9.3		1	1.1	1.6	2.4	4.2	9.1	20
Nutrients (mg/L)													
NH3 as N	54	30	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.05
NO2 + NO3 as N	54	0	N/A				0.09	0.12	0.13	0.16	0.33	0.44	0.55
TKN as N	54	40	N/A				0.2	0.2	0.2	0.2	0.2	0.24	0.3
Total Phosphorus	54	1	N/A				0.02	0.02	0.03	0.04	0.06	0.07	0.09
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				82	86	108	150	240	548	620
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	5	10	10
Cadmium, total (Cd)	13	13	>0.4	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	13	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	0	>1000	0	0		84	87	102	160	220	422	450
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	11	>50	0	0		10	10	10	10	10	18	20

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
54	35	6	11	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: DAVIDSON RIV AT US 64 NR BREVARD
Station #: E0850000
Latitude: 35.27300 **Longitude:** -82.70600
Agency: NCAMBNT

Hydrologic Unit Code: 06010105
Stream class: WS-V B Tr
NC stream index: 6-34-(15.5)

Time period: 01/28/2004 to 12/08/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	50	0	<6	0	0		8	8.5	9.3	10.4	12	13.1	15
pH (SU)	52	0	<6	8	15.4	92.9	5.3	5.7	6.1	6.4	6.6	6.9	7
	52	0	>9	0	0		5.3	5.7	6.1	6.4	6.6	6.9	7
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				10	12	13	14	15	18	26
Water Temperature (°C)	52	0	>29	0	0		2	3.1	7.6	11.6	17.2	18.7	22.5
Other													
TSS (mg/L)	19	16	N/A				2.5	2.5	2.5	2.5	6.2	6.2	11
Turbidity (NTU)	53	23	>10	0	0		1	1	1	1.1	1.8	4.6	10
Nutrients (mg/L)													
NH3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	1	0	>10	0	0		0.05	0.05	0.05	0.05	0.05	0.05	0.05
TKN as N	1	1	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Phosphorus	1	0	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
Metals (ug/L)													
Aluminum, total (Al)	13	4	N/A				50	50	50	68	120	160	180
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	5	10	10
Cadmium, total (Cd)	13	13	>0.4	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	13	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	5	>1000	0	0		50	50	50	66	110	158	170
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Manganese, total (Mn)	13	13	>200	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	11	>50	0	0		10	10	10	10	10	13	14
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
53	18	0	0										

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality
Basinwide Assessment Report

D-6

Location: LITTLE RIV UPS HIGH FALLS AT DUPONT PLANT NR CEDAR MOUNTAIN
Station #: E1130000 **Hydrologic Unit Code:** 06010105
Latitude: 35.19238 **Longitude:** -82.61308 **Stream class:** C Tr
Agency: NCAMBNT **NC stream index:** 6-38-(1)

Time period: 01/28/2004 to 12/05/2006

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	33	0	<6	0	0		7.1	7.7	8.9	9.8	10.7	11.7	14.2
pH (SU)	34	0	<6	2	5.9		5.6	6	6.3	6.5	6.6	6.8	7.2
	34	0	>9	0	0		5.6	6	6.3	6.5	6.6	6.8	7.2
Spec. conductance (umhos/cm at 25°C)	34	0	N/A				13	14	15	16	18	19	25
Water Temperature (°C)	34	0	>29	0	0		3	4.9	10	12.6	19	20.6	21.5
Other													
TSS (mg/L)	12	9	N/A				2.4	2.4	2.5	2.5	3	6.1	6.7
Turbidity (NTU)	34	0	>10	0	0		1.1	1.2	1.3	1.6	3	6.4	8
Nutrients (mg/L)													
NH3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	1	0	N/A				0.03	0.03	0.03	0.03	0.03	0.03	0.03
TKN as N	1	1	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Phosphorus	1	0	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
Metals (ug/L)													
Aluminum, total (Al)	12	0	N/A				54	60	75	78	135	367	460
Arsenic, total (As)	12	12	>10	0	0		5	5	5	5	5	10	10
Cadmium, total (Cd)	12	12	>0.4	0	0		2	2	2	2	2	2	2
Chromium, total (Cr)	12	12	>50	0	0		25	25	25	25	25	25	25
Copper, total (Cu)	12	12	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	12	0	>1000	0	0		180	189	212	235	328	437	470
Lead, total (Pb)	12	12	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	12	12	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	12	10	>50	0	0		10	10	10	10	10	39	50

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
34	40	0	0	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: FRENCH BROAD RIV AT SR 1503 AT BLANTYRE
Station #: E1270000 **Hydrologic Unit Code:** 06010105
Latitude: 35.29898 **Longitude:** -82.62364 **Stream class:** B
Agency: NCAMBNT **NC stream index:** 6-(27)

Time period: 01/28/2004 to 12/08/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	<4	0	0		6.7	7.1	8	9.5	10.8	12.1	14.5
	51	0	<5	0	0		6.7	7.1	8	9.5	10.8	12.1	14.5
pH (SU)	53	0	<6	3	5.7		5.4	6	6.3	6.5	6.6	6.8	7.1
	53	0	>9	0	0		5.4	6	6.3	6.5	6.6	6.8	7.1
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				20	20	22	24	28	29	32
Water Temperature (°C)	53	0	>29	0	0		2.6	4.3	9.3	13.4	19.7	21.1	24
Other													
TSS (mg/L)	20	6	N/A				2.5	2.7	5	6.2	13.5	23.3	25
Turbidity (NTU)	54	0	>50	1	1.9		1.6	2.2	2.9	4.1	8.9	17.5	60
Nutrients (mg/L)													
NH3 as N	1	0	N/A				0.07	0.07	0.07	0.07	0.07	0.07	0.07
NO2 + NO3 as N	1	0	N/A				0.16	0.16	0.16	0.16	0.16	0.16	0.16
TKN as N	1	1	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Phosphorus	1	0	N/A				0.03	0.03	0.03	0.03	0.03	0.03	0.03
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				110	126	200	270	670	1500	1700
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	5	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	13	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	0	>1000	1	7.7		200	212	255	360	625	1112	1200
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	9	>50	0	0		10	10	10	10	14	17	17
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
54	73	4	7										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: MILLS RIV AT END OF SR 1337 NR MILLS RIVER
Station #: E1490000 **Hydrologic Unit Code:** 06010105
Latitude: 35.39900 **Longitude:** -82.59600 **Stream class:** WS-II Tr HQW
Agency: NCAMBNT **NC stream index:** 6-54-(1)

Time period: 01/21/2004 to 12/11/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	49	0	<6	0	0		7.5	8.5	9	10.4	12.1	13.1	14.3
pH (SU)	49	0	<6	2	4.1		5.7	6.1	6.2	6.6	6.8	7	7.4
	49	0	>9	0	0		5.7	6.1	6.2	6.6	6.8	7	7.4
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				12	13	14	15	16	17	21
Water Temperature (°C)	50	0	>29	0	0		1.1	4.1	7	13.5	17.8	20.5	22.7
Other													
TSS (mg/L)	19	15	N/A				2.3	2.5	2.5	2.5	6.2	12	16
Turbidity (NTU)	51	8	>10	1	2		0.8	1	1.1	1.8	2.9	5.4	60
Nutrients (mg/L)													
NH3 as N	51	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
NO2 + NO3 as N	51	2	>10	0	0		0.02	0.03	0.05	0.07	0.09	0.12	0.55
TKN as N	51	47	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.48
Total Phosphorus	51	24	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.25
Metals (ug/L)													
Aluminum, total (Al)	14	2	N/A				50	50	59	84	125	335	430
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>0.4	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	14	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	14	0	>1000	0	0		62	64	71	102	172	335	430
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Manganese, total (Mn)	14	10	>200	0	0		10	10	10	10	10	14	17
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	14	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
51	64	5	10										

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: MUD CRK AT SR 1508 NR BALFOUR
Station #: E2120000
Latitude: 35.35267 **Longitude:** -82.46420
Agency: NCAMBNT

Hydrologic Unit Code: 06010105
Stream class: C
NC stream index: 6-55

Time period: 01/21/2004 to 12/05/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	49	0	<4	0	0		6.1	7.2	7.6	9.2	11	12.2	14.2
	49	0	<5	0	0		6.1	7.2	7.6	9.2	11	12.2	14.2
pH (SU)	49	0	<6	2	4.1		5.8	6.2	6.5	6.7	6.8	6.9	7
	49	0	>9	0	0		5.8	6.2	6.5	6.7	6.8	6.9	7
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				30	53	56	60	64	68	71
Water Temperature (°C)	51	0	>29	0	0		3	5.5	7.9	14	20	22	24.2
Other													
TSS (mg/L)	20	3	N/A				3.2	3.2	4	7.2	9.9	25.9	38
Turbidity (NTU)	52	0	>50	1	1.9		2	3	5	6.2	9.1	35.3	80
Nutrients (mg/L)													
NH3 as N	52	9	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.18
NO2 + NO3 as N	52	0	N/A				0.06	0.47	0.53	0.61	0.71	0.78	0.86
TKN as N	52	14	N/A				0.2	0.2	0.2	0.24	0.31	0.39	0.49
Total Phosphorus	52	0	N/A				0.02	0.02	0.03	0.05	0.06	0.08	0.2
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				120	132	205	320	520	1840	2400
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	5	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	13	10	>7	0	0		2	2	2	2	2	6	6
Iron, total (Fe)	13	0	>1000	2	15.4	86.6	360	368	465	520	865	1760	2200
Lead, total (Pb)	13	12	>25	1	7.7		10	10	10	10	10	20	27
Mercury, total (Hg)	11	11	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	7	>50	1	7.7		10	10	10	10	18	267	430
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
52	246	13	25	85.8									

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
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Location: FRENCH BROAD RIV AT SR 3495 GLENN BRIDGE RD NR SKYLAND
Station #: E2730000 **Hydrologic Unit Code:** 06010105
Latitude: 35.45486 **Longitude:** -82.54743 **Stream class:** B
Agency: NCAMBNT **NC stream index:** 6-(54.5)

Time period: 01/21/2004 to 12/05/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	<4	1	2		1	7.6	8.5	9.8	11.1	12.3	13.4
	51	0	<5	1	2		1	7.6	8.5	9.8	11.1	12.3	13.4
pH (SU)	51	0	<6	1	2		5.8	6.4	6.7	6.8	6.9	7.1	9
	51	0	>9	0	0		5.8	6.4	6.7	6.8	6.9	7.1	9
Spec. conductance (umhos/cm at 25°C)	49	0	N/A				29	31	34	36	40	45	48
Water Temperature (°C)	52	0	>29	0	0		4	6	8.1	13.8	19.7	22.8	26
Other													
TSS (mg/L)	19	2	N/A				2.4	3.2	4.8	8.5	14	26	78
Turbidity (NTU)	53	0	>50	2	3.8		1.5	2.8	4	5.9	11.5	27.4	140
Nutrients (mg/L)													
NH3 as N	53	23	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.07
NO2 + NO3 as N	53	0	N/A				0.2	0.27	0.3	0.32	0.38	0.43	0.57
TKN as N	53	30	N/A				0.2	0.2	0.2	0.2	0.22	0.3	0.35
Total Phosphorus	53	0	N/A				0.03	0.04	0.05	0.06	0.08	0.13	0.28
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				130	135	202	385	622	2000	2800
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	13	>7	0	0		2	2	2	2	2	2	3
Iron, total (Fe)	14	0	>1000	1	7.1		240	260	320	485	770	1750	2500
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	9	>50	0	0		10	10	10	10	12	14	15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
53	96	7	13										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: HOMINY CRK AT SR 3413 NR ASHEVILLE
Station #: E3520000
Latitude: 35.56422 **Longitude:** -82.60777
Agency: NCAMBNT

Hydrologic Unit Code: 06010105
Stream class: C
NC stream index: 6-76

Time period: 01/21/2004 to 12/11/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	48	0	<4	0	0		7.3	8	8.5	9.7	11	12.2	13.7
	48	0	<5	0	0		7.3	8	8.5	9.7	11	12.2	13.7
pH (SU)	48	0	<6	1	2.1		5.9	6.5	6.9	7	7.1	7.2	7.4
	48	0	>9	0	0		5.9	6.5	6.9	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	46	0	N/A				48	58	63	70	78	84	104
Water Temperature (°C)	49	0	>29	0	0		3	7.2	9.4	16	20.4	23.1	26.6
Other													
TSS (mg/L)	21	4	N/A				2.5	2.9	5	6.2	21	46	140
Turbidity (NTU)	51	0	>50	6	11.8	75.5	1.4	2.9	5	9.4	19	77	250
Nutrients (mg/L)													
NH3 as N	51	20	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.78
NO2 + NO3 as N	51	0	N/A				0.03	0.37	0.41	0.51	0.59	0.63	0.66
TKN as N	51	26	N/A				0.2	0.2	0.2	0.2	0.25	0.44	1.6
Total Phosphorus	51	4	N/A				0.02	0.02	0.02	0.04	0.06	0.14	0.54
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				92	111	185	300	1325	2950	3000
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	9	>7	0	0		2	2	2	2	2	4	4
Iron, total (Fe)	14	0	>1000	4	28.6	99.1	390	390	482	640	1925	3850	4500
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	8	>50	0	0		10	10	10	10	17	24	25
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
51	166	11	22	68.5									

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: SWANNANOVA RIV AT US 25 BILTMORE AVE AT ASHEVILLE
Station #: E4170000 **Hydrologic Unit Code:** 06010105
Latitude: 35.56872 **Longitude:** -82.54434 **Stream class:** C
Agency: NCAMBNT **NC stream index:** 6-78

Time period: 01/21/2004 to 12/01/2008

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	46	0	<4	0	0		7.2	7.9	8.4	9.7	11.3	14.3
	46	0	<5	0	0		7.2	7.9	8.4	9.7	11.3	14.3
pH (SU)	47	0	<6	0	0		6	6.4	6.7	6.9	7.1	7.5
	47	0	>9	0	0		6	6.4	6.7	6.9	7.1	7.5
Spec. conductance (umhos/cm at 25°C)	45	0	N/A				37	44	52	61	75	142
Water Temperature (°C)	48	0	>29	0	0		2.9	6	8.1	16	21.2	26.2
Other												
TSS (mg/L)	20	8	N/A				2.3	2.5	2.6	6.2	12.5	100
Turbidity (NTU)	50	0	>50	4	8		1.3	1.7	2.7	4.4	8.2	100
Nutrients (mg/L)												
NH3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	1	0	N/A				0.28	0.28	0.28	0.28	0.28	0.28
TKN as N	1	1	N/A				0.2	0.2	0.2	0.2	0.2	0.2
Total Phosphorus	1	0	N/A				0.02	0.02	0.02	0.02	0.02	0.02
Metals (ug/L)												
Aluminum, total (Al)	14	1	N/A				50	57	74	194	588	2300
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	10	25	25	25	25
Copper, total (Cu)	14	11	>7	0	0		2	2	2	2	2	3
Iron, total (Fe)	14	0	>1000	3	21.4	95.6	260	285	388	575	1068	4200
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		10	10	10	10	10	10
Zinc, total (Zn)	14	8	>50	0	0		10	10	10	10	16	22
Fecal Coliform Screening(#/100mL)												
# results:	Geomean	# > 400:	% > 400:	%Conf:								
50	159	9	18									

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality
Basinwide Assessment Report

Location: FRENCH BROAD RIV AT SR 1348 AT ASHEVILLE X REF E3420000
Station #: E4280000 **Hydrologic Unit Code:** 06010105
Latitude: 35.60943 **Longitude:** -82.57841 **Stream class:** B
Agency: NCAMBNT **NC stream index:** 6-(54.5)

Time period: 01/21/2004 to 12/11/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	<4	0	0		6.7	7.8	8.7	10.1	11.2	12.4	14.5
	51	0	<5	0	0		6.7	7.8	8.7	10.1	11.2	12.4	14.5
pH (SU)	51	0	<6	0	0		6	6.4	6.8	7	7.3	7.8	8.7
	51	0	>9	0	0		6	6.4	6.8	7	7.3	7.8	8.7
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				34	37	40	46	54	61	80
Water Temperature (°C)	53	0	>29	0	0		3	6.3	8.4	15.5	20.8	22.7	28.5
Other													
TSS (mg/L)	20	5	N/A				2.3	2.9	4.7	12	33.2	52.2	130
Turbidity (NTU)	54	0	>50	5	9.3		1.7	2.4	4.1	6.5	16.5	46	190
Nutrients (mg/L)													
NH3 as N	54	32	N/A				0.02	0.02	0.02	0.02	0.03	0.09	0.72
NO2 + NO3 as N	54	0	N/A				0.2	0.28	0.3	0.34	0.39	0.44	0.58
TKN as N	54	23	N/A				0.2	0.2	0.2	0.2	0.32	0.55	1.2
Total Phosphorus	54	0	N/A				0.02	0.03	0.04	0.06	0.08	0.16	0.37
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				96	108	180	590	1775	2700	3200
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	10	>7	0	0		2	2	2	2	2	4	4
Iron, total (Fe)	14	0	>1000	4	28.6	99.1	220	250	335	785	1825	3050	4000
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	8	>50	0	0		10	10	10	10	15	22	25
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
54	73	10	19										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

D-14

Location: FRENCH BROAD RIV AT SR 1634 AT ALEXANDER
Station #: E4770000 **Hydrologic Unit Code:** 06010105
Latitude: 35.70800 **Longitude:** -82.62200 **Stream class:** B
Agency: NCAMBNT **NC stream index:** 6-(54.5)

Time period: 01/21/2004 to 12/11/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	49	0	<4	0	0		7.2	7.5	8	9.9	11	11.7	13.3
	49	0	<5	0	0		7.2	7.5	8	9.9	11	11.7	13.3
pH (SU)	51	0	<6	0	0		6.1	6.3	7	7.2	7.3	7.5	7.6
	51	0	>9	0	0		6.1	6.3	7	7.2	7.3	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				46	48	51	59	67	84	90
Water Temperature (°C)	51	0	>29	0	0		5	7.7	10	16.3	22.5	24.9	28.3
Other													
TSS (mg/L)	20	4	N/A				2.3	5.6	6.2	10.4	30.5	52.7	190
Turbidity (NTU)	52	0	>50	7	13.5	85.6	1.9	3.7	5.3	8.6	19.5	78.5	180
Nutrients (mg/L)													
NH3 as N	52	0	N/A				0.04	0.06	0.08	0.13	0.18	0.26	0.42
NO2 + NO3 as N	52	0	N/A				0.28	0.39	0.42	0.5	0.69	0.96	1.3
TKN as N	52	0	N/A				0.22	0.27	0.32	0.4	0.54	0.77	1.9
Total Phosphorus	52	0	N/A				0.08	0.09	0.1	0.15	0.24	0.32	0.56
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				100	130	225	445	1650	4100	5900
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	9	>7	1	7.1		2	2	2	2	3	6	8
Iron, total (Fe)	14	0	>1000	4	28.6	99.1	230	285	382	610	1700	5000	7400
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	7	>50	0	0		10	10	10	10	17	32	35
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
52	37	8	15										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality
Basinwide Assessment Report

D-15

Location: FRENCH BROAD RIV AT BLENNERHASSETT ISLAND AT MARSHALL
Station #: E5120000 **Hydrologic Unit Code:** 06010105
Latitude: 35.79630 **Longitude:** -82.68447 **Stream class:** B
Agency: NCAMBNT **NC stream index:** 6-(54.5)

Time period: 01/21/2004 to 12/11/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	48	0	<4	0	0		7	7.8	8.4	10.2	11.4	12.4	15
	48	0	<5	0	0		7	7.8	8.4	10.2	11.4	12.4	15
pH (SU)	50	0	<6	0	0		6	6.5	6.9	7.1	7.3	7.6	7.7
	50	0	>9	0	0		6	6.5	6.9	7.1	7.3	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				43	50	54	61	75	85	94
Water Temperature (°C)	50	0	>29	0	0		3	6.8	9	15.9	22.3	24.4	27.4
Other													
TSS (mg/L)	20	4	N/A				2.4	4.1	5.7	7.9	15	61.2	200
Turbidity (NTU)	51	0	>50	6	11.8	75.5	1.9	3.2	5	8.5	19	68	140
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				110	120	202	455	1875	4600	6400
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	9	>7	1	7.1		2	2	2	2	2	7	9
Iron, total (Fe)	14	0	>1000	4	28.6	99.1	240	265	345	600	1950	5800	8000
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	6	>50	0	0		10	10	10	10	19	28	34

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
51	45	10	20

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

D-16

Location: PIGEON RIV AT NC 215 NR CANTON
Station #: E5495000
Latitude: 35.52200 **Longitude:** -82.84800
Agency: NCAMBNT

Hydrologic Unit Code: 06010106
Stream class: WS-III Tr CA
NC stream index: 5-(6.5)

Time period: 01/12/2004 to 12/01/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	46	0	<6	0	0		7.8	8.2	9.3	10.6	11.9	13	15.1
pH (SU)	47	0	<6	4	8.5		5.7	6	6.4	6.8	7	7.4	8.2
	47	0	>9	0	0		5.7	6	6.4	6.8	7	7.4	8.2
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				17	18	20	22	25	27	33
Water Temperature (°C)	49	0	>29	0	0		3.3	4.6	8	14.1	19.1	22	25.4
Other													
TSS (mg/L)	20	17	N/A				2.5	2.5	2.5	4.8	6.2	6.2	6.2
Turbidity (NTU)	51	12	>10	1	2		0.1	1	1	1.6	2.4	3.7	120
Nutrients (mg/L)													
NH3 as N	50	48	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	50	0	>10	0	0		0.06	0.11	0.16	0.2	0.25	0.27	0.29
TKN as N	50	45	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.57
Total Phosphorus	50	22	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.35
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				51	51	56	82	160	256	280
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>0.4	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	12	>7	0	0		2	2	2	2	2	4	5
Iron, total (Fe)	13	0	>1000	0	0		64	69	86	140	255	376	380
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Manganese, total (Mn)	13	4	>200	0	0		10	10	10	13	18	21	21
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	12	>50	0	0		10	10	10	10	10	12	14
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
51	42	2	4										

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
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D-17

Location: PIGEON RIV AT SR 1642 AT CLYDE
Station #: E5600000
Latitude: 35.53500 **Longitude:** -82.91100
Agency: NCAMBNT

Hydrologic Unit Code: 06010106
Stream class: C
NC stream index: 5-(7)

Time period: 01/12/2004 to 12/01/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	46	0	<4	0	0		6.4	7.1	8	9.2	10.9	12.3	15.7
	46	0	<5	0	0		6.4	7.1	8	9.2	10.9	12.3	15.7
pH (SU)	47	0	<6	0	0		6.6	6.9	7.4	7.6	7.9	8.1	8.4
	47	0	>9	0	0		6.6	6.9	7.4	7.6	7.9	8.1	8.4
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				45	159	233	407	627	1254	2000
Water Temperature (°C)	49	0	>29	1	2		5	8	10	16.3	22.4	24.8	29.6
Other													
TSS (mg/L)	20	11	N/A				2.5	2.5	2.6	6.2	11.1	12.9	20
Turbidity (NTU)	51	1	>50	1	2		1	1.5	2.1	3.5	5.4	9.3	160
Nutrients (mg/L)													
NH3 as N	50	28	N/A				0.02	0.02	0.02	0.02	0.03	0.1	0.48
NO2 + NO3 as N	50	0	N/A				0.04	0.12	0.19	0.24	0.29	0.32	0.51
TKN as N	50	6	N/A				0.2	0.2	0.24	0.34	0.56	0.74	1.1
Total Phosphorus	50	0	N/A				0.04	0.05	0.07	0.14	0.27	0.41	0.62
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				110	110	120	160	305	904	1100
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	10	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	13	0	>1000	1	7.7		110	114	140	170	430	1144	1400
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	10	>50	0	0		10	10	10	10	11	13	13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
51	107	5	10										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality
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D-18

Location: RICHLAND CRK AT SR 1184 NR WAYNESVILLE

Station #: E6110000

Hydrologic Unit Code: 06010106

Latitude: 35.50900

Longitude: -82.97200

Stream class: B

Agency: NCAMBNT

NC stream index: 5-16-(11.5)

Time period: 01/06/2004 to 12/01/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	49	0	<4	0	0		8.1	8.6	8.9	10.2	11.6	12.8	13
	49	0	<5	0	0		8.1	8.6	8.9	10.2	11.6	12.8	13
pH (SU)	51	0	<6	0	0		6.1	6.6	6.8	6.9	7.1	7.3	7.7
	51	0	>9	0	0		6.1	6.6	6.8	6.9	7.1	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				26	39	43	48	55	70	105
Water Temperature (°C)	51	0	>29	0	0		3.9	5.1	8.1	12	18.2	19.8	21.9
Other													
TSS (mg/L)	20	7	N/A				3	3.8	4.6	6.2	12	19.6	22
Turbidity (NTU)	53	1	>50	1	1.9		1	1.7	2.2	3.9	7.6	11.5	54
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				60	84	165	240	470	838	910
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	11	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	13	0	>1000	1	7.7		110	150	240	320	630	1076	1200
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	8	>50	0	0		10	10	10	10	11	15	17

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
53	283	21	40	100

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality
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D-19

Location: JONATHANS CRK AT US 276 NR COVE CREEK

Station #: E6300000

Hydrologic Unit Code: 06010106

Latitude: 35.59977

Longitude: -83.00760

Stream class: C Tr

Agency: NCAMBNT

NC stream index: 5-26-(7)

Time period: 01/06/2004 to 12/07/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	47	0	<6	0	0		7.1	8.5	9.2	10.2	11.5	12.4	14.2
pH (SU)	51	0	<6	0	0		6	6.4	6.7	6.9	7.1	7.2	7.2
	51	0	>9	0	0		6	6.4	6.7	6.9	7.1	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				23	35	37	40	43	49	66
Water Temperature (°C)	51	0	>29	0	0		3.1	5.6	8.3	11.8	17.7	19.3	24.5
Other													
TSS (mg/L)	20	6	N/A				2.5	2.5	4.6	7	10.8	13.8	20
Turbidity (NTU)	51	2	>10	5	9.8		1	1.2	2.4	4.5	7.1	11.6	74
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				53	59	98	300	440	906	990
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>0.4	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	13	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	0	>1000	1	7.7		100	112	140	380	540	1000	1100
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	10	>50	0	0		10	10	10	10	10	12	13

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
51	218	12	24	79.3

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
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D-20

Location: CATALOOCHEE CRK AT SR 1395 NR CATALOOCHEE
Station #: E6450000 **Hydrologic Unit Code:** 06010106
Latitude: 35.66700 **Longitude:** -83.07301 **Stream class:** C Tr ORW
Agency: NCAMBNT **NC stream index:** 5-41

Time period: 01/06/2004 to 12/07/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	44	0	<6	0	0		8.1	8.6	9.2	10.4	11.6	13	14.4
pH (SU)	48	0	<6	4	8.3		5.3	6	6.3	6.8	6.9	7.1	8.1
	48	0	>9	0	0		5.3	6	6.3	6.8	6.9	7.1	8.1
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				13	14	14	15	16	18	23
Water Temperature (°C)	49	0	>29	0	0		1	6	7.6	11.9	16	17.2	18.3
Other													
TSS (mg/L)	20	15	N/A				2.5	2.5	2.5	3.1	6.2	6.2	10
Turbidity (NTU)	50	17	>10	2	4		1	1	1	1.4	2.2	3.4	120
Nutrients (mg/L)													
NH3 as N	50	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	50	1	N/A				0.02	0.09	0.13	0.16	0.19	0.21	0.28
TKN as N	50	45	N/A				0.2	0.2	0.2	0.2	0.2	0.21	1.9
Total Phosphorus	50	17	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.32
Metals (ug/L)													
Aluminum, total (Al)	13	5	N/A				50	50	50	79	97	202	270
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>0.4	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	13	13	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	5	>1000	0	0		50	50	50	62	94	230	320
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	13	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
50	5	1	2										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
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D-21

Location: PIGEON RIV AT SR 1338 NR HEP
Station #: E6480000
Latitude: 35.66600 **Longitude:** -82.99500
Agency: NCAMBNT

Hydrologic Unit Code: 06010106
Stream class: C
NC stream index: 5-(7)

Time period: 01/06/2004 to 12/07/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	46	0	<4	0	0		7.6	8	8.6	9.6	11.4	12.2	16
	46	0	<5	0	0		7.6	8	8.6	9.6	11.4	12.2	16
pH (SU)	50	0	<6	0	0		6.9	7.2	7.4	7.7	8	8.2	8.9
	50	0	>9	0	0		6.9	7.2	7.4	7.7	8	8.2	8.9
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				54	122	163	229	337	496	871
Water Temperature (°C)	50	0	>29	0	0		3.4	6.6	8.9	15	21.2	22.5	24.1
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		5	5	5	5	5	5	5
TSS (mg/L)	20	9	N/A				2.5	2.5	4.5	6.2	10.2	16.7	35
Turbidity (NTU)	50	0	>50	2	4		1.2	1.9	3	5.4	10	21.6	80
Nutrients (mg/L)													
NH3 as N	50	17	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.16
NO2 + NO3 as N	50	0	N/A				0.25	0.35	0.39	0.46	0.52	0.6	0.73
TKN as N	50	7	N/A				0.2	0.2	0.21	0.3	0.44	0.54	4.7
Total Phosphorus	50	0	N/A				0.04	0.06	0.06	0.09	0.16	0.2	1
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				90	94	125	290	540	1256	1500
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	10	>7	0	0		2	2	2	2	2	5	6
Iron, total (Fe)	13	0	>1000	2	15.4	86.6	130	146	185	390	705	1520	1800
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	10	>50	0	0		10	10	10	10	12	23	24
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
50	155	10	20										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
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D-22

Location: PIGEON RIV AT WATERVILLE (TN)
Station #: E6500000
Latitude: 35.78506 **Longitude:** -83.11300
Agency: NCAMBNT

Hydrologic Unit Code: 06010106
Stream class: C
NC stream index: 5-(7)

Time period: 01/06/2004 to 12/07/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	47	0	<4	0	0		5.9	7.1	8.1	9.6	11.5	12.3	15.4
	47	0	<5	0	0		5.9	7.1	8.1	9.6	11.5	12.3	15.4
pH (SU)	50	0	<6	0	0		6.5	6.9	7	7.1	7.2	7.4	7.8
	50	0	>9	0	0		6.5	6.9	7	7.1	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				45	87	108	150	210	424	568
Water Temperature (°C)	51	0	>29	0	0		5.4	6.5	8	15.6	19.8	22.2	23.6
Other													
TSS (mg/L)	19	13	N/A				2.5	2.5	2.5	4.2	6.2	6.2	12
Turbidity (NTU)	51	0	>50	0	0		1.2	1.5	2.2	2.8	3.9	9.8	24
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				73	74	87	130	245	698	970
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	12	>7	0	0		2	2	2	2	2	2	3
Iron, total (Fe)	13	0	>1000	0	0		120	120	135	240	345	718	950
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	11	>50	0	0		10	10	10	10	10	14	14

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
51	24	5	10	

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
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Location: N TOE RIV AT US 19E NR INGALLS

Station #: E7000000

Latitude: 35.98100

Agency: NCAMBNT

Longitude: -82.01601

Hydrologic Unit Code: 06010108

Stream class: WS-IV Tr

NC stream index: 7-2-(21.5)

Time period: 01/13/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	46	0	<6	0	0		7.5	8.3	9	10.2	12	13.2	15
pH (SU)	48	0	<6	0	0		6.1	6.2	6.7	7	7.3	7.6	8.5
	48	0	>9	0	0		6.1	6.2	6.7	7	7.3	7.6	8.5
Spec. conductance (umhos/cm at 25°C)	46	0	N/A				25	43	45	50	55	59	62
Water Temperature (°C)	48	0	>29	0	0		1	3.8	7.1	14.2	19	21	23
Other													
Chloride (mg/L)	17	0	>250	0	0		4	4	5	5	7	9	10
Fluoride (mg/L)	50	49	>1.8	0	0		0.4	0.4	0.4	0.5	0.5	0.5	0.5
Sulfate (mg/L)	17	8	>250	0	0		2	2	2	2	2	3	4
TSS (mg/L)	20	8	N/A				2.5	2.6	3.9	6.5	12	40.7	480
Turbidity (NTU)	51	2	>10	10	19.6	98.9	1	1.2	2.2	3.7	7.2	30.6	240
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				56	82	135	290	565	10000	16000
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	14	14	>0.4	0	0		1	1.5	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		10	18	25	25	25	25	25
Copper, total (Cu)	14	11	>7	2	14.3	84.2	2	2	2	2	2	20	25
Iron, total (Fe)	13	0	>1000	2	15.4	86.6	120	144	225	400	660	13720	22000
Lead, total (Pb)	14	12	>25	0	0		10	10	10	10	10	14	14
Manganese, total (Mn)	13	0	>200	1	7.7		11	11	14	21	34	401	640
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	13	>25	0	0		10	10	10	10	10	14	17
Zinc, total (Zn)	14	12	>50	1	7.1		10	10	10	10	10	51	82

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
51	45	7	14

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: N TOE RIV AT SR 1162 AT PENLAND
Station #: E8100000
Latitude: 35.92929 **Longitude:** -82.11521
Agency: NCAMBNT

Hydrologic Unit Code: 06010108
Stream class: C Tr
NC stream index: 7-2-(27.7)

Time period: 01/13/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	46	0	<6	0	0		7.6	8	8.9	10.2	12.1	13.3	15.2
pH (SU)	48	0	<6	0	0		6	6.4	6.8	7	7.4	7.7	8.5
	48	0	>9	0	0		6	6.4	6.8	7	7.4	7.7	8.5
Spec. conductance (umhos/cm at 25°C)	46	0	N/A				41	53	65	83	110	170	217
Water Temperature (°C)	48	0	>29	0	0		1	3.3	7.4	14.4	20	22.3	26.4
Other													
Chloride (mg/L)	18	1	>230	0	0		1	4	6	8	9	13	13
Fluoride (mg/L)	51	14	>1.8	2	3.9		0.4	0.4	0.5	0.6	0.9	1.36	3
Sulfate (mg/L)	18	1	N/A				2	5	14	20	30	43	51
TSS (mg/L)	22	1	N/A				3	3.6	5.6	7.4	23.8	131.8	550
Turbidity (NTU)	52	0	>10	19	36.5	100	1.3	2	3.6	6.5	15.5	117	340
Nutrients (mg/L)													
NH3 as N	3	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	3	0	N/A				0.36	0.36	0.36	0.46	0.54	0.54	0.54
TKN as N	3	2	N/A				0.2	0.2	0.2	0.2	0.26	0.26	0.26
Total Phosphorus	3	1	N/A				0.02	0.02	0.02	0.02	0.05	0.05	0.05
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				200	205	240	485	2150	16050	24000
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	15	15	>0.4	0	0		1	1.6	2	2	2	2	2
Chromium, total (Cr)	15	14	>50	0	0		10	19	25	25	25	26	28
Copper, total (Cu)	15	9	>7	1	6.7		2	2	2	2	4	17	33
Iron, total (Fe)	14	0	>1000	4	28.6	99.1	270	280	318	560	2400	16450	28000
Lead, total (Pb)	15	14	>25	0	0		10	10	10	10	10	14	20
Mercury, total (Hg)	13	13	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	15	14	>88	0	0		10	10	10	10	10	14	20
Zinc, total (Zn)	15	6	>50	1	6.7		10	10	10	12	19	48	89

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
52	80	15	29	95.6

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: S TOE RIV AT SR 1168 NR CELO
Station #: E8200000
Latitude: 35.83100 **Longitude:** -82.18401
Agency: NCAMBNT

Hydrologic Unit Code: 06010108
Stream class: B Tr ORW
NC stream index: 7-2-52-(1)

Time period: 01/13/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	47	0	<6	0	0		7.5	8.3	9.4	10	11.7	13.3	13.7
pH (SU)	49	0	<6	7	14.3	88.8	4.9	5.6	6.2	6.5	6.7	7	7.2
	49	0	>9	0	0		4.9	5.6	6.2	6.5	6.7	7	7.2
Spec. conductance (umhos/cm at 25°C)	46	0	N/A				12	14	14	15	16	18	23
Water Temperature (°C)	49	0	>29	0	0		1.4	4	6.6	13.9	17.3	20	25
Other													
TSS (mg/L)	20	17	N/A				2.4	2.5	2.5	2.5	6.2	9.3	48
Turbidity (NTU)	51	28	>10	1	2		0.6	1	1	1	1.7	3.6	21
Nutrients (mg/L)													
NH3 as N	51	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.15
NO2 + NO3 as N	51	2	N/A				0.02	0.03	0.07	0.11	0.14	0.16	0.26
TKN as N	51	49	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.39
Total Phosphorus	51	32	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
Metals (ug/L)													
Aluminum, total (Al)	13	3	N/A				50	50	51	78	125	1156	1800
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>0.4	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	11	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	13	3	>1000	1	7.7		50	50	54	95	135	1348	2100
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	10	>50	0	0		10	10	10	10	14	33	39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
51	27	3	6										

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality
Basinwide Assessment Report

D-26

Location: CANE RIV AT SR 1343 NR SIOUX
Station #: E9850000
Latitude: 36.02505 **Longitude:** -82.32715
Agency: NCAMBNT

Hydrologic Unit Code: 06010108
Stream class: C Tr
NC stream index: 7-3-(13.7)

Time period: 01/13/2004 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	44	0	<6	0	0		7.8	8.6	9	10.4	11.9	14	15.7
pH (SU)	50	0	<6	0	0		6.2	6.4	6.8	7	7.6	8	8.3
	50	0	>9	0	0		6.2	6.4	6.8	7	7.6	8	8.3
Spec. conductance (umhos/cm at 25°C)	49	0	N/A				25	38	46	48	53	62	73
Water Temperature (°C)	51	0	>29	0	0		1	3.8	8.8	15.7	21	23.3	25.4
Other													
TSS (mg/L)	20	8	N/A				2.3	2.5	4.5	7.6	15.2	40.4	440
Turbidity (NTU)	52	1	>10	14	26.9	100	1	1.5	2.2	6	12.8	31.4	270
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				51	54	110	350	685	10640	17000
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>0.4	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	9	>7	1	7.7		2	2	2	2	3	11	16
Iron, total (Fe)	13	0	>1000	3	23.1	96.6	110	122	170	560	1050	12560	20000
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	12	>88	0	0		10	10	10	10	10	11	12
Zinc, total (Zn)	13	7	>50	1	7.7		10	10	10	10	17	60	74

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
52	73	9	17	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

D-27

Location: NOLICHUCKY RIV BESIDE SR 1321 AT POPLAR
Station #: E9990000 **Hydrologic Unit Code:** 06010108
Latitude: 36.07500 **Longitude:** -82.34500 **Stream class:** B
Agency: NCAMBNT **NC stream index:** 7

Time period: 01/13/2004 to 10/18/2006

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	28	0	<4	0	0		7.4	8	8.8	10	11.8	14.8	15.6
	28	0	<5	0	0		7.4	8	8.8	10	11.8	14.8	15.6
pH (SU)	29	0	<6	0	0		6.8	6.8	6.9	7.1	7.2	7.4	8
	29	0	>9	0	0		6.8	6.8	6.9	7.1	7.2	7.4	8
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				30	44	52	60	68	77	90
Water Temperature (°C)	29	0	>29	0	0		2	3.7	9.2	17	22	24.5	26.4
Other													
Fluoride (mg/L)	28	27	>1.8	0	0		0.5	0.5	0.5	0.5	0.5	0.5	0.5
TSS (mg/L)	11	2	N/A				2.5	2.5	2.8	4.8	84	268.4	310
Turbidity (NTU)	30	0	>50	5	16.7	92.7	1.1	1.6	2.4	9.8	29	134.5	170
Nutrients (mg/L)													
NH3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	1	0	N/A				0.19	0.19	0.19	0.19	0.19	0.19	0.19
TKN as N	1	0	N/A				0.53	0.53	0.53	0.53	0.53	0.53	0.53
Total Phosphorus	1	0	N/A				0.21	0.21	0.21	0.21	0.21	0.21	0.21
Metals (ug/L)													
Aluminum, total (Al)	12	0	N/A				63	68	145	210	4000	7750	9100
Arsenic, total (As)	12	12	>10	0	0		5	5	5	5	9	10	10
Cadmium, total (Cd)	12	12	>2	0	0		2	2	2	2	2	2	2
Chromium, total (Cr)	12	12	>50	0	0		25	25	25	25	25	25	25
Copper, total (Cu)	12	5	>7	3	25	97.4	2	2	2	3	8	12	13
Iron, total (Fe)	12	0	>1000	4	33.3	99.6	150	171	242	370	5025	10200	12000
Lead, total (Pb)	12	12	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	12	11	>88	0	0		10	10	10	10	10	12	13
Zinc, total (Zn)	12	6	>50	0	0		10	10	10	10	22	42	48
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
30	136	9	30	93.9									

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence