

North Carolina Ambient Monitoring System & Monitoring Coalition Program



Summary Report
2009 – 2013



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Section

<http://portal.ncdenr.org/web/wq/ess/home>

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For more information on the Ambient Monitoring System and electronic copies of this publication:

<http://portal.ncdenr.org/web/wq/ess/eco/ams>

North Carolina Department of Environmental Quality, Water Sciences Section Mission Statement:

The mission of the Water Sciences Section is to provide the Division with accurate information pertaining to waters of the state. Excellent service along with water quality monitoring and certification programs and analytical laboratory analyses that provide scientifically defensible data are the section's main avenues for accomplishing this mission. These activities support the management and protection of North Carolina's water resources for the health and welfare of the citizens of North Carolina and the economic well-being of the state.

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Introduction

Ambient Monitoring System

Part of the North Carolina Division of Water Resources (DWR), the Ambient Monitoring System (AMS) consists of a network of stations established to provide site-specific, long-term water quality information on rivers, streams and estuaries throughout North Carolina (NC). The program has been active since the late 1960s. Stations have been monitored for varying lengths of time, depending upon the reasons for which each station was established. Many stations are utilized to gain insight into surface water quality, either through short-term characterization of specific stream reaches or through long-term monitoring designed to evaluate water quality trends in certain areas of a river basin. Some stations were established to estimate the water quality impacts of discharges into surface waters. Long-term monitoring at these stations can help to document water quality improvements in response to discharge reduction or improvement efforts, such as technological advancements at wastewater treatment plants or reclamation of mined lands.

At the time of this report, there were 323 active AMS stations. Stations were located in all seventeen major river basins of the state and in 95 of North Carolina's 100 counties. Stations are visited regularly (e.g. monthly, quarterly) for the collection of a variety of physical, chemical and bacteriological pathogen samples and measurements (Table 1).

The AMS' primary objectives are:

- To monitor NC waterbodies of interest for determination of levels of chemical, physical and bacteriological pathogen indicators for comparison to applicable state water quality standards.
- To identify locations where exceedances of water quality standards and action levels for physical and chemical indicators occur in more than 10% of samples/measurements (20% for coliforms).
- To identify long-term temporal or spatial patterns.

Data produced by the AMS are also used to support several DWR water quality management programs, including Basinwide Water Quality Management Plan development, biennial 305(b) and 303(d) reporting to the US Environmental Protection Agency (EPA), Total Maximum Daily Load (TMDL) development, and development of National Pollutant Discharge Elimination System (NPDES) permit limits. Details of the Ambient Monitoring System design and implementation can be found through <http://portal.ncdenr.org/web/wq/ess/eco/ams>.

Monitoring Coalition Program

The Monitoring Coalition Program is a voluntary ambient monitoring program that provides an effective and efficient means for assessing water quality in a watershed context. A monitoring coalition is a group of stakeholders that combine resources and expertise to collectively fund and perform an in-stream monitoring program. If members of the monitoring coalitions are NPDES wastewater or drinking water

permit holders, the monitoring performed by this Program can be done in lieu of the in-stream monitoring required by their individual permits. By forming a coalition, members have a medium to gather more information about their watersheds, evaluate member-specific interests and collaborate on watershed specific issues. Coalition members work with DWR to develop a monitoring network that uses strategically selected, mutually agreeable sampling locations to evaluate water quality beyond the point-source outfall. The monitoring locations are coordinated with the State's existing ambient and biological monitoring networks to provide a more comprehensive picture of watershed conditions without duplicating efforts.

During the time period included in this report, there were seven monitoring coalitions within five of the state's river basins:

- Cape Fear River basin
 - The Upper Cape Fear River Basin Association (UCFRBA) monitors from the headwaters to the confluence of the Haw and Deep Rivers.
 - The Middle Cape Fear Basin Association (MCFBA) monitors from the confluence of the Haw and Deep Rivers to Lock and Dam 1.
 - The Lower Cape Fear River Program (LCFRP) monitors from Lock and Dam 1 to Southport.
- Neuse River basin: The Lower Neuse Basin Association (LNBA) monitors downstream of Falls Lake.
- New River basin: The New River Basin Coalition (NRBC) monitored throughout the basin.
- Tar-Pamlico River basin: The Tar-Pamlico Basin Association (TPBA) monitors throughout the basin.
- Yadkin-Pee Dee River basin: The Yadkin/Pee Dee River Basin Association (YPDRBA) monitors from the headwaters to the South Carolina border.

Combined, the monitoring coalitions sample 274 stations monthly for a variety of physical, chemical and bacteriological parameters. Details of the Monitoring Coalition Program design and implementation can be found through <http://portal.ncdenr.org/web/wq/ess/eco/coalition>.

Objective

This report summarizes results returned through the AMS Monitoring System and the Monitoring Coalition Program from January 1, 2009 through December 31, 2013.

Table 1. Parameters analyzed through the Ambient Monitoring System.

Parameter	NC Administrative Code References for Standards	
	Freshwater	Saltwater
Dissolved oxygen (s)	15A NCAC 2B.0211(3)(b)	15A NCAC 2B.0220(3)(b)
pH (s)	15A NCAC 2B.0211(3)(g)	15A NCAC 2B.0220(3)(g)
Specific conductance	None	None
Temperature (s)	15A NCAC 2B.0211(3)(j)	15A NCAC 2B.0220(3)(k)
Total suspended solids	effluent limits only, 15A NCAC 2B.0224(1)(b)(ii)	None
Turbidity (s)	15A NCAC 2B.0211(3)(k)	15A NCAC 2B.0220(3)(l)
Fecal coliform bacteria (s)	15A NCAC 2B.0211(3)(e); 15A NCAC 2B.0219(3)(b)	15A NCAC 2B.0221(3)(d)
Nutrients:		
- Total phosphorus	None	None
- Ammonia as N	None	None
- Total Kjeldahl as N	None	None
- Nitrate+nitrite as N (s)	15A NCAC 2B.0212(3)(h)(i)(E)	None
Chlorophyll <i>a</i> (s)	15A NCAC 2B.0211(3)(a)	15A NCAC 2B.0220(3)(a)

Notes:

An (s) indicates the parameter has a numeric standard.

Chlorophyll *a* and nutrient sampling are only done in areas of concern, such as nutrient sensitive waters (NSW), estuaries, lakes and areas with known enrichment issues.

Parameters

All parameters measured through the AMS are important to human health, aquatic life and/or the aquatic ecosystem, and many of the parameters are related to one another. For example, excessive nutrient inputs can create favorable conditions for algal blooms with high chlorophyll *a* levels. Upon algal death, decomposition depletes dissolved oxygen levels, thereby causing stress to sensitive aquatic organisms.

Bacteria

Fecal coliform colonies are cultured and counted as an indicator of possible illness-causing pathogens. Bacteriological pollution can enter waters via direct discharge (e.g. wastewater treatment plants or illicit discharges) or overland runoff containing animal or septic tank wastes (EPA, 1997). High bacteria counts may lead to swimming and shellfishing area closures.

Chlorophyll *a*

Chlorophyll *a* is a pigment within plants and algae that is used during photosynthesis (Novotny, 2003). It is measured as a surrogate for primary productivity in water bodies, such that high values indicate potential water quality problems due to the relationship between algal blooms and low dissolved oxygen.

Dissolved Oxygen

Oxygen is essential to the survival of aquatic organisms, such as fish and aquatic macroinvertebrates. Dissolved oxygen (DO) is introduced into a stream system via aquatic plant photosynthesis and water turbulence, and is inversely related to temperature and altitude. Dissolved oxygen levels exhibit diurnal

and seasonal cycles due to these relationships with temperature and photosynthesis. In North Carolina, DO values are generally higher in rocky, high-gradient mountain streams and lower in slow-moving, low-gradient rivers of the coastal plain. Causes of DO depletion include high temperatures, slow-moving water, aquatic plant and animal respiration, chemical reactions within the water column, and decomposition of organic matter which can enter a stream through natural pathways, waste discharges and decaying algal blooms. Low DO levels can cause stress, movement, and in extreme cases, death of aquatic organisms (EPA, 1997; Winborne, 2003).

Nutrients

Nitrogen and phosphorus exist in several molecular forms within the natural environment. Both elements contribute to primary productivity in terrestrial and aquatic systems. Nutrients are necessary but excessive inputs can cause eutrophication and associated water quality problems, especially in shallow and/or slow-moving water bodies, such as lakes and estuaries (EPA, 1997; Novotny, 2003; Winborne, 2003).

pH

The scale for measuring pH is logarithmic (i.e. a pH of 8.0 is ten times less concentrated in hydrogen ions than a pH of 7.0). A pH value of 7.0 Standard Units (SU) is neutral, while lower values are more acidic and higher values are more basic. Water chemistry and aquatic life functions are closely tied to pH levels which can influence the proportions of nutrient species and the bioavailability of toxins in the water column. The pH of ambient waters varies naturally depending upon interaction with soils, upstream inputs and conditions in the surrounding environment (EPA, 1997). The accuracy of field measurements is limited by the abilities of field equipment, which is generally accurate to within 0.2 SU, and by natural variation within a site.

Turbidity

Turbidity describes water clarity by measuring how much light passing through the water is blocked by suspended organic (e.g. algae) and inorganic (e.g. soil particles) materials. Turbidity is increased by the input of stormwater runoff, stream bank erosion and algal blooms (EPA, 1997). An important aspect of turbidity in North Carolina is sediment loading due to soil erosion from land-disturbing activities (e.g. agriculture, construction, mining). Streams naturally function to transport sediment but when the natural transport capacity is overwhelmed, there can be negative physical (e.g. flooding) and biological consequences. Excessive sediment can smother filter feeding and bottom-dwelling organisms, thereby impacting the entire aquatic food chain (Winborne, 2003).

Methods

Field and Laboratory Methods

The collection of water quality samples and the measurement of field parameters are done according to standard operating procedures. Detailed descriptions of sampling and field analysis methods are available in the DWR Intensive Survey Branch's Standard Operating Procedures (SOP) Manual (NCDENR, 2013), available as a link from <http://portal.ncdenr.org/web/wq/ess/isu>.

Similarly, DWR laboratory staff use EPA-approved methods for the analysis of waters collected through the AMS and Monitoring Coalition programs. Laboratory methods and detection limits can be accessed through the DWR laboratory web page at <http://portal.ncdenr.org/web/wq/lab/ops/methods-and-pqls>.

Quality Assurance

A comprehensive Quality Assurance/Quality Control (QA/QC) program provides the framework for generation of field and laboratory data that are scientifically valid, representative and legally defensible. The accuracy and reliability of data generated through the AMS program are assured by adherence to rigorous QA/QC protocols. The fundamental elements of the QA/QC program include Quality Assurance Project Plans (QAPPs), Standard Operating Procedures (SOPs), quality control practices, performance testing samples and internal and external audits. The AMS QAPP can be accessed at <http://portal.ncdenr.org/web/wq/ess/eco/ams/qapp>.

Data Considerations

Data generated through the AMS Program are stored in databases at DWR and are loaded into the EPA's Storage and Retrieval (STORET) data management system, accessible for data download at <http://www.epa.gov/storet/>. Links and instructions for accessing and retrieving water quality data from STORET are available at <http://portal.ncdenr.org/web/wq/ess/eco/ams>.

Data utilized in this report met all quality assurance requirements documented in the relevant SOPs and QAPPs. Data that did not meet QA/QC goals may have been included in the original dataset, but were flagged with a qualifier remark code to indicate that a QA/QC requirement was not met. Except for results below the laboratory's detection limits (i.e. "non-detects"), most data assigned a qualifier remark code (link from <http://portal.ncdenr.org/web/wq/lab/ops/methods-and-pqls>) were excluded from analyses for evaluation purposes.

Coalition Monitoring and AMS data are used for multiple purposes within the DWR. One of the primary uses of the data is comparison to surface water standards detailed in the NC Administrative Code to inform the determination of attainment or impairment of designated use(s) of waterbodies. For more information on the assessment process, see <http://portal.ncdenr.org/web/wq/ps/mtu>.

For the purposes of summary statistics in this data review, concentrations of water quality variables were compared to evaluation levels which were generally drawn from NC's water quality standards (refer to Table 1). Evaluation levels were further examined for frequency to determine if they had been exceeded in more than ten percent of the observed samples and, if so, with greater than or equal to ninety percent statistical confidence. This summary approach facilitates a rapid and straightforward presentation of the data but does not provide all of the information necessary for making specific use support decisions toward identification of impaired waters under the Clean Water Act's requirements for 303(d) listings.

References

(EPA) United States Environmental Protection Agency, Office of Water. November, 1997. Volunteer Stream Monitoring: A Methods Manual. EPA Publication Number EPA 841-B-97-003.

(NCDENR) North Carolina Department of Environment and Natural Resources, Division of Water Resources, Environmental Sciences Section. December, 2013. Intensive Survey Branch Standard Operating Procedures Manual: Physical and Chemical Monitoring, version 2.1. Available at http://portal.ncdenr.org/c/document_library/get_file?uuid=516f1b7b-fbb6-419f-83c8-0c981b2e1f78&groupId=38364.

Novotny, V. 2003. Water Quality, 2nd ed. Hoboken, New Jersey: John Wiley & Sons, Inc.

Winborne, F.B. (Author), with Clark, A., Cone, T.A., Demont, D., Mead, J., & Wojnowski, D. (Eds.). 2003. A Guide to Streamwalking. Raleigh, North Carolina: Department of Environment and Natural Resources, Division of Water Resources, Stream Watch.

Monitoring Stations and Results

Summaries of ambient monitoring results, organized by river basin, are presented on the following pages.

Broad

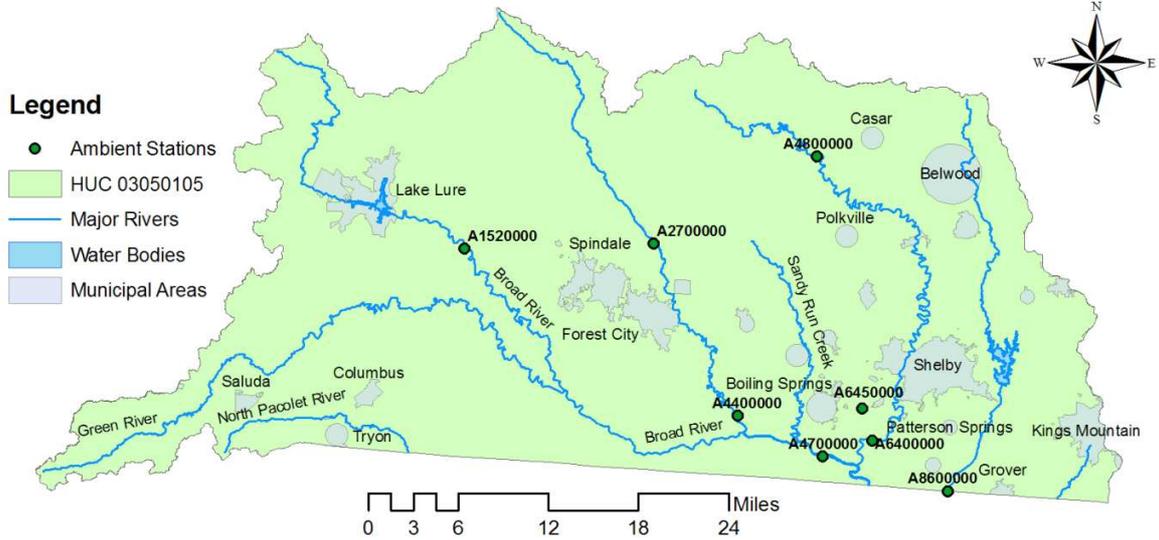


Figure BRD-1. Broad River basin ambient monitoring station locations, 2009-2013.

Table BRD-1. AMS monitoring stations in the Broad River basin, 2009-2013.

Station	Location	Latitude	Longitude	Stream Class
HUC 03050105				
A1520000	Broad River at SR 1181 near Rock Springs	35.3937	-82.0948	C
A2700000	Second Broad River at SR 1538 near Logan	35.4042	-81.8720	WS-IV
A4400000	Second Broad River at US 221 Alt at Cliffside	35.2387	-81.7667	WS-IV
A4700000	Broad River at NC 150 near Boiling Springs	35.2013	-81.6655	WS-IV
A4800000	First Broad River at SR 1530 near Casar	35.4933	-81.6813	WS-V Tr
A6400000	First Broad River at SR 1140 near Earl	35.2178	-81.6077	C
A6450000	Sugar Branch at NC 150 near Boiling Springs	35.2494	-81.6203	C
A8600000	Buffalo Creek at NC 198 near Grover	35.1708	-81.5168	C

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BROAD RIV AT SR 1181 NR ROCK SPRINGS

Station #: A1520000

Hydrologic Unit Code: 03050105

Latitude: 35.39366

Longitude: -82.09476

Stream class: C

Agency: NCAMBNT

NC stream index: 9-(22)

Time period: 01/14/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	15	0	<4	0	0		7.3	7.5	7.9	10	11.7	13.1	13.5
	15	0	<5	0	0		7.3	7.5	7.9	10	11.7	13.1	13.5
pH (SU)	17	0	<6	0	0		6.2	6.3	6.5	6.7	7.1	7.3	7.3
	17	0	>9	0	0		6.2	6.3	6.5	6.7	7.1	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				33	33	36	38	40	44	46
Water Temperature (°C)	17	0	>29	0	0		4.5	5.4	9.2	13.9	22.4	24.9	25.9
Other													
Hardness (mg/L)	14	0	N/A				10	10	10	12	13	16	17
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	7.8	16.5	46.9	237
Turbidity (NTU)	52	0	>50	3	5.8		1.3	1.9	3.1	5.2	9.5	29.2	150
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				0.14	0.14	0.14	0.14	0.14	0.14	0.14
TKN as N	1	1	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Phosphorus	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
51	82.5	6	11.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: SECOND BROAD RIV AT SR 1538 NR LOGAN

Station #: A2700000

Hydrologic Unit Code: 03050105

Latitude: 35.40424

Longitude: -81.87201

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 9-41-(10.5)

Time period: 01/14/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	16	0	<4	0	0		7.2	7.5	8.3	10.3	11.1	12.4	12.6
	16	0	<5	0	0		7.2	7.5	8.3	10.3	11.1	12.4	12.6
pH (SU)	18	0	<6	0	0		6.4	6.4	6.5	6.8	6.8	7.1	7.2
	18	0	>9	0	0		6.4	6.4	6.5	6.8	6.8	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				52	53	54	62	63	66	67
Water Temperature (°C)	18	0	>29	0	0		4.9	5.6	9.1	11.8	19.7	21.5	22.1
Other													
Hardness (mg/L)	14	0	>100	0	0		20	20	21	22	22	32	40
TSS (mg/L)	20	5	N/A				6.2	6.2	6.2	8.2	21.5	132.6	482
Turbidity (NTU)	54	0	>50	4	7.4		2.1	4.6	7.1	10.5	19	43	330
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
53	220.1		10	18.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SECOND BROAD RIV AT US 221 ALT AT CLIFFSIDE

Station #: A4400000

Hydrologic Unit Code: 03050105

Latitude: 35.23872

Longitude: -81.76667

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 9-41-(24.7)

Time period: 01/14/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	16	0	<4	0	0		6.2	6.6	7.6	10.6	11.7	12.7	12.8
	16	0	<5	0	0		6.2	6.6	7.6	10.6	11.7	12.7	12.8
pH (SU)	18	0	<6	0	0		6	6.3	6.5	6.9	7.1	7.3	7.3
	18	0	>9	0	0		6	6.3	6.5	6.9	7.1	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				48	56	60	66	74	80	81
Water Temperature (°C)	18	0	>29	0	0		4.9	6.3	9	12.3	20.4	23.6	24
Other													
Hardness (mg/L)	14	0	>100	0	0		20	20	20	21	23	32	40
TSS (mg/L)	20	2	N/A				6.2	6.3	10.2	14	16.8	27.5	405
Turbidity (NTU)	54	0	>50	3	5.6		1.5	6	12	17.5	24.2	40	360
Nutrients (mg/L)													
NH3 as N	52	15	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.08
NO2 + NO3 as N	52	0	>10	0	0		0.14	0.23	0.3	0.38	0.43	0.52	0.62
TKN as N	52	14	N/A				0.2	0.2	0.2	0.23	0.28	0.36	1.8
Total Phosphorus	52	0	N/A				0.02	0.04	0.04	0.06	0.08	0.09	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	149.7	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BROAD RIV AT NC 150 NR BOILING SPRINGS

Station #: A4700000

Hydrologic Unit Code: 03050105

Latitude: 35.20131

Longitude: -81.66553

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 9-(40.5)

Time period: 01/14/2009 to 12/16/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		7.6	8	8.4	9.6	11.4	12.7	14.6
	57	0	<5	0	0		7.6	8	8.4	9.6	11.4	12.7	14.6
pH (SU)	59	0	<6	1	1.7		5.9	6.4	7.2	7.5	7.8	8.2	8.6
	59	0	>9	0	0		5.9	6.4	7.2	7.5	7.8	8.2	8.6
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				26	43	45	52	58	64	84
Water Temperature (°C)	59	0	>29	3	5.1		3.4	7.9	10.7	17.2	23.9	27.5	31.4
Other													
Hardness (mg/L)	14	0	>100	0	0		11	12	15	17	18	21	23
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.4	16	75.2	400
Turbidity (NTU)	59	0	>50	5	8.5		2.3	3.8	5.9	10	23	50	390
Nutrients (mg/L)													
NH3 as N	58	48	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.06
NO2 + NO3 as N	58	0	>10	0	0		0.16	0.19	0.22	0.25	0.31	0.36	0.38
TKN as N	58	31	N/A				0.2	0.2	0.2	0.2	0.21	0.33	0.9
Total Phosphorus	58	1	N/A				0.02	0.02	0.03	0.03	0.06	0.1	0.54
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	65.5	8	13.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FIRST BROAD RIV AT SR 1530 NR CASAR

Station #: A4800000

Hydrologic Unit Code: 03050105

Latitude: 35.49331

Longitude: -81.68133

Stream class: WS-V Tr

Agency: NCAMBNT

NC stream index: 9-50-(1)

Time period: 01/14/2009 to 12/16/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<6	0	0		7.2	8	9	10.2	11.4	12.6	14.5
pH (SU)	59	0	<6	3	5.1		5.4	6	6.5	7.5	7.8	7.9	8.5
	59	0	>9	0	0		5.4	6	6.5	7.5	7.8	7.9	8.5
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				23	32	35	38	40	43	50
Water Temperature (°C)	60	0	>20	17	28.3	> 99.9	1.1	6.4	9.7	14.7	20.6	24.6	27.4
	60	0	>29	0	0		1.1	6.4	9.7	14.7	20.6	24.6	27.4
Other													
Hardness (mg/L)	14	0	>100	0	0		11	11	11	12	13	14	14
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	12	180
Turbidity (NTU)	60	1	>10	6	10		1	1.5	2.1	2.8	5.2	13.5	90
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	54.8	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FIRST BROAD RIV AT SR 1140 NR EARL

Station #: A6400000

Hydrologic Unit Code: 03050105

Latitude: 35.21776

Longitude: -81.60773

Stream class: C

Agency: NCAMBNT

NC stream index: 9-50-(28)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		6.2	7	7.8	9.4	11.2	12.6	13.9
	57	0	<5	0	0		6.2	7	7.8	9.4	11.2	12.6	13.9
pH (SU)	59	0	<6	1	1.7		5.8	6.3	6.5	7.2	7.4	7.5	8
	59	0	>9	0	0		5.8	6.3	6.5	7.2	7.4	7.5	8
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				31	46	56	65	74	82	93
Water Temperature (°C)	59	0	>29	1	1.7		1.1	6.5	9.9	16.1	23	26.8	30.9
Other													
Hardness (mg/L)	14	0	N/A				17	18	18	19	20	23	23
TSS (mg/L)	20	3	N/A				6.2	6.2	7.4	12	16.5	101.7	850
Turbidity (NTU)	59	0	>50	8	13.6	76.5	3.4	5.8	8.6	15	27	75	800
Nutrients (mg/L)													
NH3 as N	58	3	N/A				0.02	0.02	0.04	0.06	0.15	0.18	0.42
NO2 + NO3 as N	58	0	N/A				0.33	0.4	0.48	0.58	0.66	0.71	1
TKN as N	58	6	N/A				0.2	0.2	0.25	0.34	0.46	0.66	1.4
Total Phosphorus	58	0	N/A				0.02	0.04	0.05	0.07	0.13	0.28	1.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	197.3	15	25.4	81.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SUGAR BRANCH AT NC 150 NR BOILING SPRINGS

Station #: A6450000

Hydrologic Unit Code: 03050105

Latitude: 35.24938

Longitude: -81.62025

Stream class: C

Agency: NCAMBNT

NC stream index: 9-50-32-3

Time period: 01/14/2009 to 12/16/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	1	1.8		3.3	6	7	8.2	9.8	11	12.4
	57	0	<5	1	1.8		3.3	6	7	8.2	9.8	11	12.4
pH (SU)	59	0	<6	2	3.4		5.5	6	6.3	6.9	7.3	7.4	7.7
	59	0	>9	0	0		5.5	6	6.3	6.9	7.3	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				63	74	79	82	86	90	109
Water Temperature (°C)	59	0	>29	0	0		2.2	8.6	10.4	16.3	21.6	24.2	28.4
Other													
Hardness (mg/L)	14	0	N/A				20	22	23	24	25	38	50
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	8.7	39.4	120
Turbidity (NTU)	59	0	>50	5	8.5		1.2	2	3.1	4.5	11	19	270
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:	%Conf:								
59	312.5		22	37.3	99.8								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: BUFFALO CRK AT NC 198 NR GROVER

Station #: A8600000

Hydrologic Unit Code: 03050105

Latitude: 35.17076

Longitude: -81.51679

Stream class: C

Agency: NCAMBNT

NC stream index: 9-53-(5)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		6.3	7.2	7.7	9.3	11.2	12	13.5
	57	0	<5	0	0		6.3	7.2	7.7	9.3	11.2	12	13.5
pH (SU)	59	0	<6	1	1.7		5.8	6.5	6.7	7.2	7.4	7.7	8
	59	0	>9	0	0		5.8	6.5	6.7	7.2	7.4	7.7	8
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				52	71	87	114	142	178	227
Water Temperature (°C)	59	0	>29	0	0		3.1	8.2	10.3	15.7	22.9	26.1	28.9
Other													
Hardness (mg/L)	14	0	N/A				21	22	23	24	26	29	29
TSS (mg/L)	20	9	N/A				6.2	6.2	6.9	12	24	66.5	280
Turbidity (NTU)	59	0	>50	5	8.5		2.4	4.1	6.7	11	22	40	160
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
59	167.5		11	18.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Cape Fear

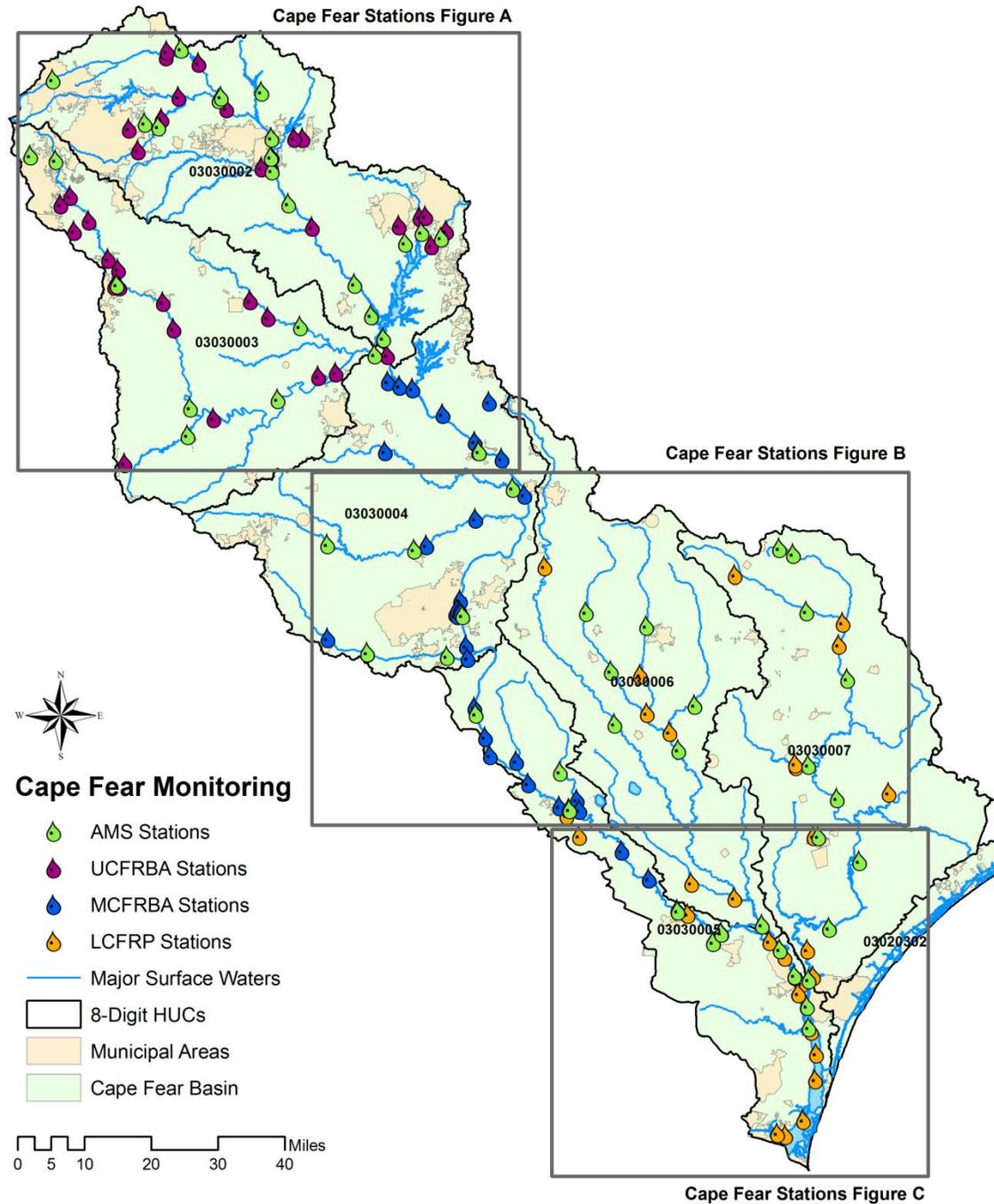


Figure CPF-1. Cape Fear River basin ambient monitoring station locations, 2009-2013 (see details below).

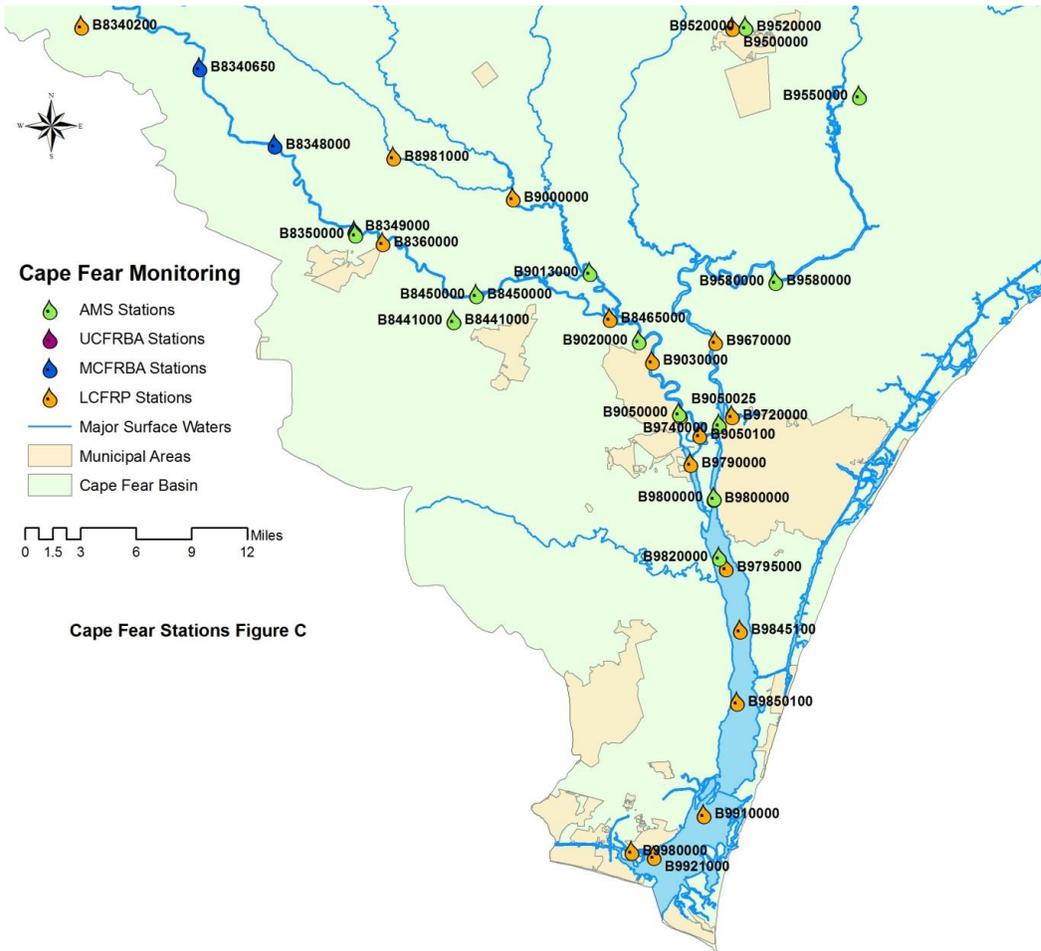
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Table CPF-1a. AMS monitoring stations in the Cape Fear River basin, 2009-2013.

Agency	Station	Location	Latitude	Longitude	Stream Class
HUC 03030002					
AMS	B0040000	Haw River at SR 2109 near Oak Ridge	36.2133	-79.9562	C NSW
AMS	B0160000	Little Troublesome Creek at SR 2600 near Reidsville	36.2826	-79.6116	C NSW
AMS	B0210000	Haw River at SR 1561 near Altamahaw	36.1786	-79.5042	C NSW
AMS	B0540000	N Buffalo Creek at SR 2832 near Greensboro	36.1199	-79.7082	C NSW
AMS & UCFRBA	B0750000	S Buffalo Creek at SR 2821 at McLeansville	36.1128	-79.6718	C NSW
AMS	B0840000	Reedy Fork at NC 87 at Ossipee	36.1730	-79.5103	C NSW
AMS	B1095000	Jordan Creek at SR 1754 near Union Ridge	36.1890	-79.3948	WS-II HQW NSW
AMS	B1140000	Haw River at NC 49N at Haw River	36.0889	-79.3682	C NSW
AMS	B1260000	Town Branch at SR 2109 near Graham	36.0473	-79.3691	C NSW
AMS & UCFRBA	B1960000	Big Alamance Creek at SR 2116 at Swepsonville	36.0177	-79.3670	C NSW
AMS	B1980000	Haw River at SR 2171 at Saxapahaw	35.9461	-79.3221	C NSW
AMS & UCFRBA	B2100000	Haw River at SR 1713 near Bynum	35.7717	-79.1450	WS-IV NSW
AMS & UCFRBA	B2450000	Robeson Creek at Boat Access off SR 1943 near Hanks Chapel	35.7032	-79.1003	WS-IV B NSW CA
AMS	B3040000	New Hope Creek at SR 1107 near Blands	35.8847	-78.9656	WS-IV NSW
AMS	B3660000	Northeast Creek at SR 1100 near Nelson	35.8724	-78.9132	WS-IV NSW
AMS	B3900000	Morgan Creek at SR 1726 near Farrington	35.8612	-79.0100	WS-IV NSW
AMS	B4050000	Haw River below Jordan Dam near Moncure	35.6534	-79.0673	WS-IV
HUC 03030003					
AMS	B4210000	W Fork Deep River at SR 1818 near High Point	36.0466	-80.0141	WS-IV CA*
AMS	B4240000	E Fork Deep River at SR 1541 near High Point	36.0373	-79.9458	WS-IV*
AMS	B4890000	Haskett Creek at SR 2128 near Central Falls	35.7679	-79.7790	C
AMS	B5190000	Deep River at SR 1456 near High Falls	35.5005	-79.5814	C
AMS	B5480000	Bear Creek at NC 705 at Robbins	35.4407	-79.5886	C
AMS	B5575000	Deep River at NC 42 at Carbonton	35.5200	-79.3485	WS-IV HQW
AMS	B6000000	Rocky River at NC 902 near Pittsboro	35.6787	-79.2898	WS-III CA
AMS	B6040300	Deep River at SR 1011 Old US 1 near Moncure	35.6176	-79.0912	WS-IV
HUC 03030004					
AMS & MCFRBA	B6370000	Cape Fear River at US 401 at Lillington	35.4065	-78.8135	WS-IV
AMS & MCFRBA	B6830000	Upper Little River at SR 2021 near Lillington	35.3266	-78.7238	WS-IV
AMS	B7245000	Lower Little River at SR 2023 near Lobelia	35.2037	-79.2159	WS-III HQW
AMS	B7280000	Lower Little River at SR 1451 at Manchester	35.1932	-78.9856	C
AMS	B7600000	Cape Fear River at NC 24 at Fayetteville	35.0499	-78.8575	C
AMS & MCFRBA	B7700000	Rockfish Creek at SR 1432 near Raeford	34.9683	-79.1096	B
AMS	B8224000	Rockfish Creek at SR 2350 near Cedar Creek	34.9610	-78.8991	C

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Table CPF-1b. AMS monitoring stations in the Cape Fear River basin, 2009-2013 (continued).

Agency	Station	Location	Latitude	Longitude	Stream Class
HUC 03030005					
AMS	B8300000	Cape Fear River at WO Huske Lock near Tar Heel	34.8349	-78.8226	C
AMS	B8321000	Turnbull Creek at SR 1509 near Johnstontown	34.7084	-78.6008	C
AMS	B8340000	Cape Fear River at Lock 2 near Elizabethtown	34.6264	-78.5768	C
AMS	B8350000	Cape Fear River at Lock 1 near Kelly	34.4038	-78.2932	WS-IV Sw
AMS & LCFRP	B8441000	Livingston Creek at Wright Corporation Walkway near Acme	34.3353	-78.2011	C Sw
AMS & LCFRP	B8450000	Cape Fear River at Neils Eddy Landing near Acme	34.3555	-78.1794	C Sw
AMS	B9020000	Cape Fear River DNS Hale Point Landing near Phoenix	34.3181	-78.0264	C Sw
AMS	B9050000	Cape Fear River at Navassa	34.2612	-77.9891	SC
AMS & LCFRP	B9800000	Cape Fear River at CM 61 at Wilmington	34.1943	-77.9568	SC
AMS	B9820000	Cape Fear River at CM 56 near Wilmington	34.1475	-77.9526	SC
HUC 03030006					
AMS	B8490000	Little Coharie Creek at SR 1414 Minnie Hall Rd near Salemburg	35.0555	-78.5310	C Sw
AMS	B8545000	Little Coharie Creek at SR 1240 near Roseboro	34.9274	-78.4657	C Sw
AMS	B8580000	Great Coharie Creek at SR 1311 near Clinton	35.0248	-78.3717	C Sw
AMS	B8725000	Six Runs Creek at SR 1960 near Taylors Bridge	34.8520	-78.2448	C Sw ORW +
AMS	B8750000	Black River at NC 411 near Tomahawk	34.7544	-78.2891	C Sw ORW +
AMS	B8919000	South River at SR 1503 near Parkersburg	34.8122	-78.4568	C Sw ORW +
AMS	B9013000	Black River at Raccoon Island near Huggins	34.3720	-78.0721	C Sw ORW +
HUC 03030007					
AMS	B9080000	Northeast Cape Fear River at SR 1937 near Mt Olive	35.1914	-78.0176	C Sw
AMS & LCFRP	B9090000	Northeast Cape Fear River at NC 403 near Williams	35.1784	-77.9807	C Sw
AMS	B9190500	Goshen Swamp at SR 1004 near Westbrook Crossroad	35.0535	-77.9474	C Sw
AMS	B9196000	Northeast Cape Fear River at SR 1961 at Hallsville	34.9059	-77.8409	C Sw
AMS	B9470000	Rockfish Creek at I 40 at Wallace	34.7191	-77.9462	C Sw
AMS	B9480000	Northeast Cape Fear River at SR 1318 near Watha	34.6459	-77.8725	C Sw
AMS & LCFRP	B9520000	Burgaw Creek at US 117 at Burgaw	34.5638	-77.9220	C Sw
AMS	B9550000	Lillington Creek at SR 1520 near Stag Park	34.5084	-77.8154	C Sw
AMS & LCFRP	B9580000	Northeast Cape Fear River at US 117 at Castle Hayne	34.3637	-77.8965	B Sw
AMS	B9740000	Northeast Cape Fear River at NC 133 at Wilmington	34.2518	-77.9510	SC Sw

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Table CPF-2a. UCFRBA monitoring stations in the Cape Fear River basin, 2009-2013.

Agency	Station	Location	Latitude	Longitude	Stream Class
HUC 03030002					
UCFRBA	B0050000	Haw River at US 29 Bus near Benaja	36.2652	-79.6523	C NSW
UCFRBA	B0070010	Troublesome Creek at US 29 Bus near Reidsville	36.2768	-79.6499	C NSW
UCFRBA	B0170000	Haw River at SR 2620 High Rock Rd near Williamsburg	36.2514	-79.5647	C NSW
UCFRBA	B0400000	Reedy Fork at SR 2719 High Rock Rd near Monticello	36.1778	-79.6177	C NSW
UCFRBA	B0480050	N Buffalo Creek at N Buffalo Creek WWTP Influent Conduit Pier at Greensboro	36.1074	-79.7502	C NSW
UCFRBA	B0540050	N Buffalo Creek at SR 2770 Huffine Mill Rd near McLeansville	36.1299	-79.6626	C NSW
UCFRBA	B0670000	S Buffalo Creek at SR 3000 McConnell Rd near	36.0598	-79.7256	C NSW
UCFRBA & AMS	B0750000	South Buffalo Creek at SR 2821 at McLeansville	36.1128	-79.6718	C NSW
UCFRBA	B0850000	Haw River at SR 1530 Gerringer Mill Rd near Ossipee	36.1531	-79.4895	WS-V NSW
UCFRBA	B1020000	Haw River at SR 1700 (Lower Hopedale Rd) at Hopedale	36.1247	-79.4083	WS-IV NSW
UCFRBA	B1200000	Haw River at NC 54 near Graham	36.0481	-79.3667	C NSW
UCFRBA	B1350000	Moadams Creek at Corrigdor Rd upstream of discharge near Mebane	36.0885	-79.2844	C NSW
UCFRBA	B1380000	Moadams Creek at SR 1940 Gibson Rd near Florence	36.0891	-79.3074	C NSW
UCFRBA	B1440000	Haw River at SR 2158 Swepsonville Rd near Swepsonville	36.0256	-79.3682	C NSW
UCFRBA	B1940000	Big Alamance Creek at NC 87 near Swepsonville	36.0242	-79.3943	C NSW
UCFRBA & AMS	B1960000	Big Alamance Creek at SR 2116 at Swepsonville	36.0177	-79.3670	WS-V NSW
UCFRBA	B2000000	Haw River at SR 1005 near Saxpawah	35.8953	-79.2585	C NSW
UCFRBA & AMS	B2100000	Haw River at SR 1713 near Bynum	35.7716	-79.1449	WS-IV NSW
UCFRBA & AMS	B2450000	Robeson Creek at Boat Access off SR 1943 near Hanks Chapel	35.7032	-79.1003	WS-IV B NSW CA
UCFRBA	B3020000	New Hope Creek at NC 54 near Durham	35.9167	-78.9704	WS-IV NSW
UCFRBA	B3025000	Third Fork Creek at NC 54 near Durham	35.9187	-78.9548	WS-IV NSW
UCFRBA	B3040000	New Hope Creek at SR 1107 Stagecoach Rd near Blands	35.8847	-78.9656	WS-IV NSW
UCFRBA	B3300000	Northeast Creek at SR 1102 Sedwick Road near RTP	35.8870	-78.8994	WS-IV NSW
UCFRBA	B3670000	Northeast Creek at SR 1731 O Kelly Church Rd near Durham	35.8555	-78.9397	WS-IV NSW
UCFRBA	B3899180	Morgan Creek at Mason Farm WWTP Ent at Chapel Hill	35.8987	-79.0263	WS-IV NSW
UCFRBA	B3900000	Morgan Creek at SR 1726 Old Farrington Rd near Farrington	35.8612	-79.0100	WS-IV NSW
UCFRBA	B4080000	Haw River at SR 1011 Old US 1 near Haywood	35.6164	-79.0569	WS-IV

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Table CPF-2b. UCFRBA monitoring stations in the Cape Fear River basin, 2009-2013 (continued).

Agency	Station	Location	Latitude	Longitude	Stream Class
HUC 03030003					
UCFRBA	B4350000	Deep River at SR 1113 Kivett Dr near Hayworth Spring	35.9594	-79.9061	WS-IV CA*
UCFRBA	B4380000	Richland Creek at SR 1154 Kersey Valley Rd near High Point	35.9410	-79.9322	WS-IV CA*
UCFRBA	B4614500	Randleman Lake at SR 1921 near Randleman	35.9062	-79.8565	WS-IV CA*
UCFRBA	B4621000	Muddy Creek at SR 1917 (Suits Rd) near Glenola	35.8958	-79.9195	WS-IV*
UCFRBA	B4625000	Muddy Creek at SR 1922 near Glenola	35.8836	-79.8950	WS-IV*
UCFRBA	B4770500	Deep River at Bus 220 Main St at Randleman	35.8233	-79.8033	C
UCFRBA	B4800000	Deep River at SR 2122/2128 Worthville Rd at Worthville	35.8007	-79.7762	C
UCFRBA	B4870000	Haskett Creek at Asheboro WWTP Bridge near Asheboro	35.7647	-79.7862	C
UCFRBA	B4920000	Deep River at SR 2261 Old Liberty Rd near Central Falls	35.7635	-79.7721	C
UCFRBA	B5070000	Deep River at SR 2615 Brooklyn Ave at Ramseur	35.7302	-79.6558	C
UCFRBA	B5100000	Deep River at SR 2628 Hinshaw Town Rd near Parks Crossroads	35.6724	-79.6274	C
UCFRBA	B5390800	Cotton Creek at SR 1372 Auman Rd near Star	35.3782	-79.7551	WS-III
UCFRBA	B5520000	Deep River at NC 22 at High Falls	35.4777	-79.5195	C HQW
UCFRBA	B5685000	Deep River at Deep Riverer Park Bridge near Cumnock	35.5704	-79.2411	C
UCFRBA	B5820000	Deep River at US 15 And 501 near Sanford	35.5782	-79.1942	C
UCFRBA	B5890000	Loves Creek at Waste Treatment Plant Rd at Siler City	35.7298	-79.4289	C
UCFRBA	B5920000	Loves Creek at Progress Blvd at Siler City	35.7322	-79.4246	C
UCFRBA	B5950000	Rocky River at US 64 near Siler City	35.7351	-79.4233	C
UCFRBA	B5980000	Rocky River at SR 2170 Riveres Chapel Rd near Siler City	35.6985	-79.3756	C
UCFRBA	B6040300	Deep River at SR 1011 Old US 1 near Moncure	35.6176	-79.0912	WS-IV

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Table CPF-3. MCFRBA monitoring stations in the Cape Fear River basin, 2009-2013.

Agency	Station	Location	Latitude	Longitude	Stream Class
HUC 03030004					
MCFRBA	B6130500	Lick Creek at SR 1500 near Corinth	35.5592	-79.0550	WS-IV
MCFRBA	B6160000	Cape Fear River at NC 42 near Corinth	35.5491	-79.0246	WS-IV CA
MCFRBA	B6204000	Buckhorn Creek beside SR 1921 Buckhorn Rd near Corinth	35.5435	-78.9899	C
MCFRBA	B6215000	Cape Fear River at Captains Landing near Cokesbury	35.4871	-78.9516	WS-IV
MCFRBA	B6230000	Avents Creek at SR 1418 near Cokesbury	35.4875	-78.9094	WS-IV HQW
MCFRBA	B6252000	Neills Creek at US 401 near Lillington	35.4281	-78.8240	WS-IV
MCFRBA	B6320000	Kenneth Creek at SR 1441 Chalybeate Springs Road near Angier	35.5144	-78.7862	WS-IV
MCFRBA & AMS	B6370000	Cape Fear River at US 401 at Lillington	35.4067	-78.8149	WS-IV
MCFRBA	B6485000	Buies Creek behind Keith Hills Golf Course Maintenance Shop at Buies Creek	35.3907	-78.7527	WS-IV
MCFRBA	B6820050	Upper Little River at SR 1222 (Broadway Road) near Broadway	35.4067	-79.0628	C
MCFRBA & AMS	B6830000	Upper Little River at SR 2021 Titan Roberts Road near Lillington	35.3266	-78.7237	WS-IV
MCFRBA	B6840000	Cape Fear River at NC 217 at Erwin	35.3121	-78.6932	WS-V
MCFRBA	B7300000	Lower Little River at NC 210 near Spring Lake	35.2021	-78.9530	C
MCFRBA	B7319100	Lower Little River at SR 1609 (West Reeves Bridge Rd.) near Walkertown	35.2598	-78.8231	C
MCFRBA	B7480000	Cape Fear River at Hoffer Water Treatment Plant intake at Fayetteville	35.0825	-78.8638	WS-IV CA
MCFRBA	B7500000	Cape Fear River at I-95 below Fayetteville	34.9830	-78.8480	C
MCFRBA	B7547000	Cross Creek at Cross Creek Park at Fayetteville	35.0538	-78.8769	C
MCFRBA	B7584000	Blount's Creek at US 301A Person St at Fayetteville	35.0497	-78.8703	C
MCFRBA	B7584800	UT to Cross Creek off Anne St at Fayetteville	35.0622	-78.8718	C
MCFRBA	B7584900	UT to Cross Creek at Cross Creek WRF at Fayetteville	35.0599	-78.8647	C
MCFRBA	B7590000	Cross Creek at Bus NC 301/Bus I-95 in Fayetteville	35.0547	-78.8625	C
MCFRBA	B7679300	Rockfish Creek at US 401 bypass near Raeford	34.9995	-79.2148	B
MCFRBA & AMS	B7700000	Rockfish Creek at SR 1432 Golf Course Rd near Raeford	34.9680	-79.1100	B
MCFRBA	B8230000	Rockfish Creek at NC 87 near Fayetteville	34.9561	-78.8441	C
HUC 03030005					
MCFRBA	B8290000	Cape Fear River at Dupont water intake ups of L&D3	34.8495	-78.8263	C
MCFRBA	B8302000	Cape Fear River at power lines near Tolarsville	34.7843	-78.7983	C
MCFRBA	B8305000	Cape Fear River at SR 1316 at Tar Heel	34.7448	-78.7856	C
MCFRBA	B8306000	Cape Fear River at RM 80 near Ruskin	34.6831	-78.6847	C
MCFRBA	B8315000	Harrison Creek at SR 1320 at Burney	34.7317	-78.7164	C
MCFRBA	B8320000	Cape Fear River at US 701 at Elizabethtown	34.6324	-78.6029	C
MCFRBA	B8339000	Cape Fear River above Lock & Dam 2	34.6270	-78.5780	C
MCFRBA	B8340100	Turnbull Creek at US 701, NC 53, and NC 41 near Elizabethtown	34.6470	-78.5567	C
MCFRBA	B8340130	Cape Fear River at RM 70 near Elizabethtown	34.6246	-78.5505	C
MCFRBA	B8340650	Cape Fear River at RM 55-no road-near Bladen Springs	34.5352	-78.4398	WS-V
MCFRBA	B8348000	Cape Fear River at SR 1730 Elwell Ferry Rd near Carvers	34.4740	-78.3690	WS-IV
MCFRBA	B8349000	Cape Fear River above Lock & Dam 1 near East Arcadia	34.4060	-78.2943	WS-IV CA

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table CPF-4. LCFRP monitoring stations in the Cape Fear River basin, 2009-2013.

Agency	Station	Location	Latitude	Longitude	Stream Class
HUC 03030005					
LCFRP	B8340050	Browns Creek at NC 87 near Elizabethtown	34.6136	-78.5848	C
LCFRP	B8340200	Hammond Creek at SR 1704 near Mt. Olive	34.5685	-78.5515	C
LCFRP	B8360000	Cape Fear River at NC 11 near East Arcadia	34.3969	-78.2675	WS-IV Sw
LCFRP & AMS	B8441000	Livingston Creek at Wright Corp. Walkway near Acme	34.3353	-78.2011	C Sw
LCFRP & AMS	B8450000	Cape Fear River at Neils Eddy Landing near Acme	34.3555	-78.1794	C Sw
LCFRP	B8465000	Cape Fear River at intake near Hooper Hill	34.3358	-78.0534	C Sw
LCFRP	B9030000	Cape Fear River ups Indian Creek near Phoenix	34.3021	-78.0137	C Sw
LCFRP	B9050025	Cape Fear River Dns RR Bridge at Navassa	34.2594	-77.9877	SC
LCFRP	B9050100	Cape Fear River at Horseshoe Bend near Wilmington	34.2437	-77.9698	SC
LCFRP	B9790000	Brunswick River downstream of NC 17 at park near Belville	34.2214	-77.9787	SC
LCFRP	B9795000	Cape Fear River at Channel Marker 54	34.1393	-77.9460	SC
LCFRP & AMS	B9800000	Cape Fear River at Channel Marker 61 at Wilmington	34.1938	-77.9573	SC
LCFRP	B9845100	Cape Fear River at Channel Marker 42	34.0902	-77.9336	SC
LCFRP	B9850100	Cape Fear River at Channel Marker 35	34.0335	-77.9370	SC
LCFRP	B9910000	Cape Fear River at Channel Marker 23	33.9456	-77.9696	SA HQW
LCFRP	B9921000	Cape Fear River at Channel Marker 18	33.9130	-78.0170	SC
LCFRP	B9980000	Intracoastal Waterway near Southport	33.9173	-78.0379	SA HQW
HUC 03030006					
LCFRP	B8470000	South River at US 13 near Cooper	35.1560	-78.6401	C Sw
LCFRP	B8604000	Great Coharie Crk at SR 1214 near Butler Crossroads	34.9186	-78.3887	C Sw
LCFRP	B8610001	Little Coharie Creek at SR 1207 near Ingold	34.8347	-78.3709	C Sw
LCFRP	B8740000	Six Runs Creek at SR 1003 near Ingold	34.7933	-78.3113	C Sw ORW+
LCFRP	B8920000	South River at SR 1007 Ennis Bridge Rd near Kerr	34.6402	-78.3116	C Sw ORW+
LCFRP	B8981000	Colly Creek at NC 53 at Colly	34.4641	-78.2569	C Sw
LCFRP	B9000000	Black River at NC 210 at Still Bluff	34.4312	-78.1441	C Sw ORW+
HUC 03030007					
LCFRP & AMS	B9090000	Northeast Cape Fear River at NC 403 near Williams	35.1784	-77.9807	C Sw
LCFRP	B9130000	Panther Branch near Faison	35.1345	-78.1363	C Sw
LCFRP	B9191000	Goshen Swamp at NC 11 and NC 903 near Kornegay	35.0281	-77.8516	C Sw
LCFRP	B9191500	Northeast Cape Fear River SR 1700 near Sarecta	34.9801	-77.8622	C Sw
LCFRP	B9430000	Rockfish Creek at US 117 near Wallace	34.7168	-77.9795	C Sw
LCFRP	B9460000	Little Rockfish Creek at NC 11 near Wallace	34.7224	-77.9814	C Sw
LCFRP	B9490000	Angola Creek at NC 53 near Maple Hill	34.6562	-77.7351	C Sw
LCFRP	B9500000	Burgaw Creek at SR 1345 Wright St. at Burgaw	34.5633	-77.9348	C Sw
LCFRP & AMS	B9520000	Burgaw Creek at US 117 at Burgaw	34.5637	-77.9220	C Sw
LCFRP & AMS	B9580000	Northeast Cape Fear River at US 117 at Castle Hayne	34.3637	-77.8965	B Sw
LCFRP	B9670000	Northeast Cape Fear River near Wrightsboro	34.3171	-77.9538	C Sw
LCFRP	B9720000	Smith Creek at US 117 and NC 133 at Wilmington	34.2586	-77.9391	C Sw

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 2109 NR OAK RIDGE

Station #: B0040000

Hydrologic Unit Code: 03030002

Latitude: 36.21326

Longitude: -79.95620

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-(1)

Time period: 01/05/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	3	5.3		3.8	4.4	5.2	6	8.3	10.8	12.4
pH (SU)	57	0	<5	8	14	79.3	3.8	4.4	5.2	6	8.3	10.8	12.4
	57	0	<6	0	0		6.4	6.7	6.9	7.2	7.4	7.8	8.4
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.4	6.7	6.9	7.2	7.4	7.8	8.4
	60	0	N/A				49	68	74	87	103	114	278
Water Temperature (°C)	60	0	>32	0	0		1.1	4.1	7.3	15.2	20.4	22.9	23.6
Other													
Hardness (mg/L)	14	0	>100	0	0		22	22	25	34	40	43	44
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	12	14.7	23
Turbidity (NTU)	60	0	>50	0	0		6.6	8.4	12	18	24.8	31	38
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.02	0.02	0.02	0.03	0.07	0.12	0.34
NO2 + NO3 as N	59	6	>10	0	0		0.02	0.02	0.04	0.06	0.11	0.15	0.84
TKN as N	60	1	N/A				0.2	0.26	0.32	0.38	0.47	0.6	0.71
Total Phosphorus	60	0	N/A				0.02	0.03	0.03	0.04	0.05	0.08	0.16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	154.6	11	18.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: HAW RIV AT US 29 BUS NR BENAJA

Station #: B0050000

Hydrologic Unit Code: 03030002

Latitude: 36.26517 **Longitude:** -79.65226

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-(1)

Time period: 01/26/2009 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	4	4.7		3.1	5	5.5	6.7	8.4	10.5	13
	85	0	<5	8	9.4		3.1	5	5.5	6.7	8.4	10.5	13
pH (SU)	85	0	<6	5	5.9		5.5	6	6.4	6.7	6.9	7	7.8
	85	0	>9	0	0		5.5	6	6.4	6.7	6.9	7	7.8
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				52	68	76	95	109	118	132
Water Temperature (°C)	85	0	>32	0	0		0.2	5.6	10.4	19.6	23.8	25.4	27
Other													
TSS (mg/L)	60	6	N/A				1	2.5	4	4	8	13.7	22
Turbidity (NTU)	60	0	>50	2	3.3		5.6	8.5	9.5	12.7	19.8	35.6	59.7
Nutrients (mg/L)													
NH3 as N	60	36	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.12
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.03	0.07	0.13	0.18	0.23	0.42
TKN as N	60	10	N/A				0.18	0.2	0.28	0.42	0.51	0.59	0.92
Total Phosphorus	55	2	N/A				0.02	0.03	0.04	0.05	0.08	0.13	0.54
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	132.5	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TROUBLESOME CRK AT US 29 BUS NR REIDSVILLE

Station #: B0070010

Hydrologic Unit Code: 03030002

Latitude: 36.27680

Longitude: -79.64993

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-6-(3)

Time period: 01/26/2009 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	15	25	99.9	2.2	2.9	3.8	7.1	9.9	10.9	12.5
	60	0	<5	19	31.7	> 99.9	2.2	2.9	3.8	7.1	9.9	10.9	12.5
pH (SU)	60	0	<6	7	11.7	60.5	5.7	6	6.2	6.6	6.8	7	7.1
	60	0	>9	0	0		5.7	6	6.2	6.6	6.8	7	7.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				48	62	66	72	94	135	147
Water Temperature (°C)	60	0	>32	0	0		1.4	6.1	9.5	16.8	23.8	25.9	30.6
Other													
TSS (mg/L)	60	11	N/A				1	2.5	3	6	8.8	11	46
Turbidity (NTU)	60	0	>50	4	6.7		3.3	4.4	5.4	7	9.7	28.2	77.5
Nutrients (mg/L)													
NH3 as N	60	13	N/A				0.01	0.02	0.03	0.09	0.15	0.24	0.3
NO2 + NO3 as N	60	7	>10	0	0		0.02	0.02	0.04	0.08	0.15	0.22	0.42
TKN as N	60	5	N/A				0.2	0.25	0.38	0.49	0.64	0.82	1.09
Total Phosphorus	55	11	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	40.4	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE TROUBLESOME CRK AT SR 2600 NR REIDSVILLE

Station #: B0160000

Hydrologic Unit Code: 03030002

Latitude: 36.28255

Longitude: -79.61160

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 16-7-(2)

Time period: 01/05/2009 to 12/09/2013

Field	# 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		5.8	7.1	8.2	9.7	11.7	12.8	15
	51	0	<5	0	0		5.8	7.1	8.2	9.7	11.7	12.8	15
pH (SU)	51	0	<6	0	0		6.8	7.1	7.2	7.4	7.6	7.9	8.3
	51	0	>9	0	0		6.8	7.1	7.2	7.4	7.6	7.9	8.3
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				86	98	116	132	142	146	163
Water Temperature (°C)	54	0	>32	0	0		2.1	6.4	8.8	15.4	21.8	23.9	27
Other													
Hardness (mg/L)	13	0	>100	0	0		29	29	34	44	49	51	51
TSS (mg/L)	19	10	N/A				6.2	6.2	6.2	12	24	38	84
Turbidity (NTU)	54	0	>50	5	9.3		3.8	5.2	7.4	11.5	36	57.5	240
Nutrients (mg/L)													
NH3 as N	54	19	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.68
NO2 + NO3 as N	54	0	>10	0	0		0.08	0.26	0.33	0.45	0.63	0.72	0.85
TKN as N	54	6	N/A				0.2	0.2	0.2	0.3	0.4	0.62	1.7
Total Phosphorus	54	0	N/A				0.03	0.03	0.04	0.06	0.1	0.14	0.54
Metals (ug/L)													
Aluminum, total (Al)	6	0	N/A				350	350	380	515	1078	1400	1400
Arsenic, total (As)	6	6	>10	0	0		2	2	2	2	2	2	2
Cadmium, total (Cd)	6	6	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	6	6	>50	0	0		10	10	10	10	10	10	10
Copper, total (Cu)	6	4	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	6	0	>1000	4	66.7		930	930	975	1150	2100	2100	2100
Lead, total (Pb)	6	6	>25	0	0		10	10	10	10	10	10	10
Nickel, total (Ni)	6	5	>25	0	0		10	10	10	10	12	16	16
Zinc, total (Zn)	6	4	>50	0	0		10	10	10	10	16	26	26
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	172.9	13	24.1	72.5									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 2620 HIGH ROCK RD NR WILLIAMSBURG

Station #: B0170000

Hydrologic Unit Code: 03030002

Latitude: 36.25143

Longitude: -79.56475

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-(6.5)

Time period: 01/26/2009 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4.3	5.7	6.3	7.2	9.1	10.8	13.7
	85	0	<5	2	2.4		4.3	5.7	6.3	7.2	9.1	10.8	13.7
pH (SU)	85	0	<6	3	3.5		5.5	6.4	6.7	6.9	7.1	7.3	8.6
	85	0	>9	0	0		5.5	6.4	6.7	6.9	7.1	7.3	8.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				60	84	99	138	244	450	680
Water Temperature (°C)	85	0	>32	0	0		0.8	5.6	10.6	20.5	24.2	25.7	26.6
Other													
TSS (mg/L)	60	12	N/A				1	2.1	2.5	5	16.8	33.4	242
Turbidity (NTU)	60	0	>50	7	11.7	60.5	4.2	5.5	7.1	9.8	25.5	63.2	180
Nutrients (mg/L)													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.21
NO2 + NO3 as N	60	0	>10	0	0		0.07	0.1	0.16	0.24	0.35	0.54	0.84
TKN as N	60	4	N/A				0.2	0.27	0.4	0.53	0.66	0.79	1.64
Total Phosphorus	55	0	N/A				0.03	0.04	0.05	0.07	0.12	0.29	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	114.6	11	18.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 1561 NR ALTAMAHAW

Station #: B0210000

Hydrologic Unit Code: 03030002

Latitude: 36.17864

Longitude: -79.50415

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-(10.5)

Time period: 01/06/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		4.5	5.9	7	8.4	11	12.5	15.9
	57	0	<5	1	1.8		4.5	5.9	7	8.4	11	12.5	15.9
pH (SU)	57	0	<6	0	0		6.8	7	7.1	7.3	7.4	7.6	7.9
	57	0	>9	0	0		6.8	7	7.1	7.3	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				58	87	101	141	206	387	568
Water Temperature (°C)	60	0	>32	0	0		0.7	5.4	9.2	16.6	23.2	25.2	27.7
Other													
Hardness (mg/L)	14	0	>100	0	0		25	26	27	35	42	48	50
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	7.7	10	28.5	266
Turbidity (NTU)	60	0	>50	7	11.7	60.5	2.1	5.9	7.9	13	19.8	55	320
Nutrients (mg/L)													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.16
NO2 + NO3 as N	60	0	>10	0	0		0.02	0.15	0.21	0.26	0.35	0.53	7
TKN as N	60	0	N/A				0.23	0.35	0.42	0.47	0.54	0.7	1.5
Total Phosphorus	60	0	N/A				0.03	0.04	0.05	0.07	0.1	0.14	0.6
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	103.1	9	15.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: REEDY FORK AT SR 2719 HIGH ROCK RD NR MONTICELLO

Station #: B0400000

Hydrologic Unit Code: 03030002

Latitude: 36.17780

Longitude: -79.61772

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-11-(9)

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5.5	6.1	6.6	8.1	10.3	11.5	13
	60	0	<5	0	0		5.5	6.1	6.6	8.1	10.3	11.5	13
pH (SU)	60	0	<6	0	0		6.1	6.3	6.5	6.9	7.1	7.2	7.4
	60	0	>9	0	0		6.1	6.3	6.5	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				70	78	86	104	117	124	153
Water Temperature (°C)	60	0	>32	0	0		2.7	5	9.3	17.3	23.8	25.8	27.3
Other													
TSS (mg/L)	60	17	N/A				1	2.5	2.5	5	8	16.7	47
Turbidity (NTU)	60	0	>50	1	1.7		2	2.7	4.3	7.8	9.6	20	68.9
Nutrients (mg/L)													
NH3 as N	60	34	N/A				0.02	0.02	0.02	0.02	0.04	0.08	1.1
NO2 + NO3 as N	60	8	>10	0	0		0.02	0.02	0.05	0.11	0.16	0.26	0.53
TKN as N	60	5	N/A				0.2	0.22	0.3	0.45	0.57	0.76	1
Total Phosphorus	55	13	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	51.4	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: N BUFFALO CRK AT N BUFFALO CRK WWTP INFLUENT CONDUIT PIER AT GREENSBORO

Station #: B0480050

Hydrologic Unit Code: 03030002

Latitude: 36.10740

Longitude: -79.75023

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-11-14-1

Time period: 01/27/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4.5	5.6	6.2	6.9	9.4	11.4	13.9
	85	0	<5	3	3.5		4.5	5.6	6.2	6.9	9.4	11.4	13.9
pH (SU)	85	0	<6	0	0		6.1	6.6	6.8	7	7.2	7.4	7.8
	85	0	>9	0	0		6.1	6.6	6.8	7	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				91	118	165	222	260	290	1041
Water Temperature (°C)	85	0	>32	0	0		1.2	6.9	12.8	20.7	24.3	26.2	27.4
Other													
TSS (mg/L)	60	28	N/A				1	1.1	2.5	2.5	4	8	19
Turbidity (NTU)	60	0	>50	0	0		1.3	2.9	3.6	4.8	7.5	11.8	30.1
Nutrients (mg/L)													
NH3 as N	60	27	N/A				0.02	0.02	0.02	0.04	0.06	0.15	0.37
NO2 + NO3 as N	60	0	>10	0	0		0.03	0.13	0.26	0.38	0.53	0.7	0.89
TKN as N	60	6	N/A				0.2	0.2	0.3	0.48	0.62	0.78	0.84
Total Phosphorus	55	0	N/A				0.03	0.04	0.05	0.07	0.09	0.1	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	249.5	17	28.3	92.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: N BUFFALO CRK AT SR 2832 NR GREENSBORO

Station #: B0540000

Hydrologic Unit Code: 03030002

Latitude: 36.11994

Longitude: -79.70818

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-11-14-1

Time period: 01/06/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		4.2	5.4	6.4	7.7	9.4	10.6	12.4
	57	0	<5	2	3.5		4.2	5.4	6.4	7.7	9.4	10.6	12.4
pH (SU)	58	0	<6	0	0		6.6	7	7.1	7.3	7.3	7.5	7.8
	58	0	>9	0	0		6.6	7	7.1	7.3	7.3	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				60	112	237	318	364	423	849
Water Temperature (°C)	59	0	>32	0	0		5.1	9.1	12.5	17.1	21.6	24	26.8
Other													
Hardness (mg/L)	14	0	>100	0	0		38	47	58	68	78	88	93
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	12	50.8	92
Turbidity (NTU)	57	0	>50	4	7		1.1	2.1	2.6	4.3	9.9	36.4	140
Nutrients (mg/L)													
NH3 as N	57	0	N/A				0.05	0.07	0.08	0.12	0.24	0.95	2.6
NO2 + NO3 as N	57	0	>10	10	17.5	94.5	0.35	1.07	3.5	6.8	9.9	11.2	14
TKN as N	57	0	N/A				0.6	0.73	0.84	0.93	1.1	1.46	3.3
Total Phosphorus	57	0	N/A				0.06	0.07	0.11	0.17	0.28	0.44	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	273.8	18	31.6	97.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: N BUFFALO CRK AT SR 2770 HUFFINE MILL RD NR MCLEANSVILLE

Station #: B0540050

Hydrologic Unit Code: 03030002

Latitude: 36.12998

Longitude: -79.66260

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-11-14-1

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.7	6.7	7	7.5	9.5	11.8	13.9
	85	0	<5	0	0		5.7	6.7	7	7.5	9.5	11.8	13.9
pH (SU)	85	0	<6	1	1.2		6	6.6	6.9	7.1	7.3	7.5	7.8
	85	0	>9	0	0		6	6.6	6.9	7.1	7.3	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				49	141	203	287	357	404	861
Water Temperature (°C)	85	0	>32	0	0		2.7	7.9	12.8	20.6	24.1	26.2	27.5
Other													
TSS (mg/L)	60	20	N/A				1	2.1	2.5	3	5.8	14.8	153
Turbidity (NTU)	60	0	>50	1	1.7		1	1.9	2.6	3.8	9	20	134
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.04	0.11	0.58	1.85
NO2 + NO3 as N	60	0	>10	10	16.7	92.7	1.17	1.51	3.12	5.25	9.32	11.47	14.8
TKN as N	60	16	N/A				0.2	0.2	0.2	0.51	0.83	1.25	2.6
Total Phosphorus	55	0	N/A				0.05	0.07	0.1	0.14	0.2	0.28	0.51
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	192.3	13	21.7	57.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S BUFFALO CRK AT SR 3000 MCCONNELL RD NR GREENSBORO

Station #: B0670000

Hydrologic Unit Code: 03030002

Latitude: 36.05978

Longitude: -79.72556

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-11-14-2

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.4	6	6.6	7.9	9.8	11.6	14.1
	85	0	<5	0	0		5.4	6	6.6	7.9	9.8	11.6	14.1
pH (SU)	85	0	<6	0	0		6.1	6.6	6.9	7.1	7.4	7.7	8.3
	85	0	>9	0	0		6.1	6.6	6.9	7.1	7.4	7.7	8.3
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				78	120	154	224	270	302	1142
Water Temperature (°C)	85	0	>32	0	0		0.8	7.8	12.7	20.7	24.8	27.2	29.1
Other													
TSS (mg/L)	60	13	N/A				1	2.5	2.5	4	8	20	112
Turbidity (NTU)	60	0	>50	3	5		2	2.5	3.8	6.7	15.6	34.8	124
Nutrients (mg/L)													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.04	0.11	0.22
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.05	0.16	0.27	0.4	0.59	1.2
TKN as N	60	3	N/A				0.2	0.22	0.33	0.49	0.64	0.84	1.03
Total Phosphorus	55	1	N/A				0.02	0.04	0.05	0.07	0.09	0.11	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	276	20	33.3	98.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S BUFFALO CRK AT SR 2821 AT MCLEANSVILLE

Station #: B0750000

Hydrologic Unit Code: 03030002

Latitude: 36.11278

Longitude: -79.67181

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-11-14-2

Time period: 01/06/2009 to 11/21/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	56	0	<4	0	0		5.1	5.7	6.3	7.2	8.6	12.9
	56	0	<5	0	0		5.1	5.7	6.3	7.2	8.6	12.9
pH (SU)	58	0	<6	0	0		6.8	7.1	7.3	7.4	7.5	7.8
	58	0	>9	0	0		6.8	7.1	7.3	7.4	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				76	165	446	568	684	958
Water Temperature (°C)	59	0	>32	0	0		10.1	12.9	15.5	20	23.4	28.7
Other												
Hardness (mg/L)	14	0	>100	0	0		32	42	57	64	70	81
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	12	360
Turbidity (NTU)	57	0	>50	4	7		1.5	1.8	2.7	5.1	12.5	240
Nutrients (mg/L)												
NH3 as N	57	2	N/A				0.02	0.03	0.04	0.06	0.08	6.7
NO2 + NO3 as N	57	0	>10	2	3.5		0.72	1.26	4	6.1	7.5	12
TKN as N	57	0	N/A				1	1.1	1.2	1.3	1.6	8.5
Total Phosphorus	57	0	N/A				0.16	0.2	0.25	0.32	0.54	4.9
Metals (ug/L)												
Arsenic, dissolved (As)	24	9	>10	0	0		2	2	2	2	3	9
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10
Copper, dissolved (Cu)	28	0	>7	0	0		3	3	3	4	4	6
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10
Manganese, dissolved (Mn)	20	0	>200	0	0		22	24	34	62	98	160
Nickel, dissolved (Ni)	28	6	>25	0	0		3	5	8	10	11	17
Zinc, dissolved (Zn)	28	0	>50	12	42.9	> 99.9	18	21	42	48	76	120
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
57	305.7	18	31.6	97.4								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S BUFFALO CRK AT SR 2821 AT MCLEANSVILLE

Station #: B0750000

Hydrologic Unit Code: 03030002

Latitude: 36.11278

Longitude: -79.67181

Stream class: WS-V NSW

Agency: NCSPST

NC stream index: 16-11-14-2

Time period: 03/14/2011 to 03/17/2011

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Other													
Hardness (mg/L)	4	0	>100	0	0		66	66	66	68	79	82	82
Metals (ug/L)													
Arsenic, dissolved (As)	4	2	>10	0	0		2	2	2	2	3	3	3
Arsenic, total (As)	4	2	>10	0	0		2	2	2	2	3	3	3
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	4	0	>7	0	0		3	3	3	4	5	5	5
Copper, total (Cu)	4	0	>7	0	0		5	5	5	5	6	7	7
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2	2
Manganese, dissolved (Mn)	4	0	>200	0	0		100	100	102	115	135	140	140
Manganese, total (Mn)	4	0	>200	0	0		120	120	122	130	145	150	150
Nickel, dissolved (Ni)	4	0	>25	0	0		3	3	3	5	5	5	5
Nickel, total (Ni)	4	0	>25	0	0		4	4	4	5	5	5	5
Zinc, dissolved (Zn)	4	0	>50	0	0		20	20	20	26	46	50	50
Zinc, total (Zn)	4	0	>50	1	25		22	22	23	36	56	59	59

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S BUFFALO CRK AT SR 2821 AT MCLEANSVILLE

Station #: B0750000

Hydrologic Unit Code: 03030002

Latitude: 36.11278

Longitude: -79.67181

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-11-14-2

Time period: 01/27/2009 to 04/12/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	0	0		6.1	6.2	6.5	7.9	9.5	10.7	11.3
	21	0	<5	0	0		6.1	6.2	6.5	7.9	9.5	10.7	11.3
pH (SU)	21	0	<6	0	0		6.3	6.5	6.9	7.1	7.4	7.5	7.6
	21	0	>9	0	0		6.3	6.5	6.9	7.1	7.4	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				156	243	474	571	706	777	874
Water Temperature (°C)	21	0	>32	0	0		8.7	9.5	13.5	20.7	25.6	27.9	30
Other													
TSS (mg/L)	16	0	N/A				1	1.7	2.2	6	15.8	38.8	57
Turbidity (NTU)	16	0	>50	0	0		2.3	2.4	4	5.6	13.5	37.9	38.3
Nutrients (mg/L)													
NH3 as N	16	1	N/A				0.02	0.03	0.04	0.07	0.1	0.14	0.18
NO2 + NO3 as N	16	0	>10	1	6.2		1.72	1.81	3.4	5.67	6.68	9.59	11.3
TKN as N	16	3	N/A				0.2	0.2	0.41	1.11	1.45	1.59	1.67
Total Phosphorus	11	0	N/A				0.26	0.26	0.28	0.47	0.78	0.97	1.01
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
16	350.1	8	50	99.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: REEDY FORK AT NC 87 AT OSSIPPEE

Station #: B0840000

Hydrologic Unit Code: 03030002

Latitude: 36.17299

Longitude: -79.51026

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-11-(9)

Time period: 01/06/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		6.8	7.5	7.9	8.9	11.1	12.7	14.7
	56	0	<5	0	0		6.8	7.5	7.9	8.9	11.1	12.7	14.7
pH (SU)	56	0	<6	0	0		6.8	7	7.3	7.6	7.7	7.9	8.3
	56	0	>9	0	0		6.8	7	7.3	7.6	7.7	7.9	8.3
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				55	112	157	350	482	590	763
Water Temperature (°C)	59	0	>32	0	0		2.7	7.3	11.1	18.1	23.5	26.1	28.7
Other													
Hardness (mg/L)	14	0	>100	0	0		32	36	53	56	59	64	66
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	8.6	27.3	217
Turbidity (NTU)	60	0	>50	8	13.3	75.1	1.4	2.4	4	7.3	12.8	64.8	230
Nutrients (mg/L)													
NH3 as N	59	6	N/A				0.02	0.02	0.03	0.05	0.09	0.18	0.53
NO2 + NO3 as N	59	0	>10	0	0		0.17	0.57	1	3.3	5	6.7	8.1
TKN as N	59	0	N/A				0.31	0.64	0.75	0.87	1	1.2	1.8
Total Phosphorus	59	0	N/A				0.04	0.1	0.13	0.18	0.25	0.4	0.74
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	174.2	13	21.7	57.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 1530 GERRINGER MILL RD NR OSSIPEE

Station #: B0850000

Hydrologic Unit Code: 03030002

Latitude: 36.15314

Longitude: -79.48945

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-(1)

Time period: 01/27/2009 to 04/12/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	0	0		6.8	7.2	7.8	9.2	11.1	13.1	13.9
	21	0	<5	0	0		6.8	7.2	7.8	9.2	11.1	13.1	13.9
pH (SU)	21	0	<6	1	4.8		6	6.1	6.6	7.1	7.5	7.8	8.3
	21	0	>9	0	0		6	6.1	6.6	7.1	7.5	7.8	8.3
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				68	75	120	204	324	622	655
Water Temperature (°C)	21	0	>32	0	0		3.4	5.4	9.9	17.6	23.2	26.4	27.6
Other													
TSS (mg/L)	16	1	N/A				1	1.7	4	7	14	36.8	62
Turbidity (NTU)	16	0	>50	1	6.2		2.6	3	6.9	9.1	25.1	49.5	83.4
Nutrients (mg/L)													
NH3 as N	16	9	N/A				0.02	0.02	0.02	0.02	0.06	0.19	0.25
NO2 + NO3 as N	16	0	>10	0	0		0.26	0.26	0.58	0.97	1.81	5.26	6.41
TKN as N	16	2	N/A				0.2	0.2	0.45	0.64	0.82	1.05	1.45
Total Phosphorus	11	0	N/A				0.07	0.08	0.09	0.12	0.2	0.41	0.46
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
16	149.8	2	12.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 1700 AT HOPEDALE

Station #: B1020000

Hydrologic Unit Code: 03030002

Latitude: 36.12467

Longitude: -79.40834

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-(10.5)

Time period: 05/13/2010 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	64	0	<4	0	0		6.9	7.4	7.7	8.5	10.4	11.5	14.5
	64	0	<5	0	0		6.9	7.4	7.7	8.5	10.4	11.5	14.5
pH (SU)	64	0	<6	0	0		6.4	6.9	7.1	7.3	7.7	8	8.8
	64	0	>9	0	0		6.4	6.9	7.1	7.3	7.7	8	8.8
Spec. conductance (umhos/cm at 25°C)	64	0	N/A				81	106	141	209	380	466	686
Water Temperature (°C)	64	0	>32	0	0		3.1	8.5	13.9	22.1	25	27.1	28.5
Other													
TSS (mg/L)	44	10	N/A				2.5	2.5	3	6.5	18.8	43	73
Turbidity (NTU)	44	0	>50	1	2.3		2.1	2.5	3.6	9.5	17.8	41.8	194
Nutrients (mg/L)													
NH3 as N	44	20	N/A				0.02	0.02	0.02	0.03	0.06	0.12	0.2
NO2 + NO3 as N	44	0	>10	0	0		0.11	0.34	0.72	1.35	2.41	4.94	8.48
TKN as N	44	0	N/A				0.37	0.46	0.58	0.76	0.89	1.26	1.53
Total Phosphorus	44	0	N/A				0.06	0.07	0.09	0.12	0.17	0.26	1.01
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
44	96	9	20.5	47									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: JORDAN CRK AT SR 1754 NR UNION RIDGE

Station #: B1095000

Hydrologic Unit Code: 03030002

Latitude: 36.18898

Longitude: -79.39484

Stream class: WS-II HQW NSW

Agency: NCAMBNT

NC stream index: 16-14-6-(0.5)

Time period: 01/06/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	50	0	<4	0	0		4.6	5.9	7.4	8.9	10.6	12.2	15.6
	50	0	<5	1	2		4.6	5.9	7.4	8.9	10.6	12.2	15.6
pH (SU)	50	0	<6	0	0		6.3	6.9	7.1	7.3	7.4	7.6	8.2
	50	0	>9	0	0		6.3	6.9	7.1	7.3	7.4	7.6	8.2
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				50	70	84	102	115	130	146
Water Temperature (°C)	53	0	>32	0	0		0.9	6.2	8.3	15.5	20.6	23.7	25.1
Other													
Hardness (mg/L)	12	0	>100	0	0		25	25	28	34	44	48	49
TSS (mg/L)	18	11	N/A				6.2	6.2	6.2	6.2	18.5	102.1	184
Turbidity (NTU)	53	0	>50	6	11.3	56	2.7	3.6	5.5	9.4	19	66	210
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	196.5	16	30.2	94.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT NC 49N AT HAW RIVER

Station #: B1140000

Hydrologic Unit Code: 03030002

Latitude: 36.08889

Longitude: -79.36822

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-(10.5)

Time period: 01/26/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		7.1	7.7	8.7	10.2	12.9	14.1	15.9
	58	0	<5	0	0		7.1	7.7	8.7	10.2	12.9	14.1	15.9
pH (SU)	60	0	<6	0	0		7	7.3	7.5	7.8	8.4	8.7	9.2
	60	0	>9	1	1.7		7	7.3	7.5	7.8	8.4	8.7	9.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				50	122	169	224	385	544	722
Water Temperature (°C)	60	0	>32	0	0		1.8	6.2	10.9	17.6	24	27.9	31.7
Other													
Hardness (mg/L)	14	0	>100	0	0		15	20	32	46	50	54	55
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.3	11.5	19.5	20
Turbidity (NTU)	60	0	>50	6	10		2.1	2.5	3.7	7.8	19.2	57.6	170
Nutrients (mg/L)													
NH3 as N	59	11	N/A				0.02	0.02	0.02	0.03	0.08	0.18	0.52
NO2 + NO3 as N	59	0	>10	0	0		0.57	0.79	1.1	1.9	3.3	4.1	7.3
TKN as N	59	0	N/A				0.56	0.65	0.78	0.89	1	1.2	1.6
Total Phosphorus	59	0	N/A				0.06	0.09	0.1	0.13	0.23	0.31	0.49

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	70.3	8	13.6	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT NC 54 NR GRAHAM

Station #: B1200000

Hydrologic Unit Code: 03030002

Latitude: 36.04805

Longitude: -79.36668

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-(10.5)

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.6	7	8.1	10.1	11.2	13.1
	85	0	<5	0	0		5.9	6.6	7	8.1	10.1	11.2	13.1
pH (SU)	85	0	<6	0	0		6.1	6.7	7	7.2	7.6	8	8.8
	85	0	>9	0	0		6.1	6.7	7	7.2	7.6	8	8.8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				64	93	140	212	366	500	682
Water Temperature (°C)	85	0	>32	0	0		2.5	7.4	12	21.2	25.3	27.3	29.6
Other													
TSS (mg/L)	60	13	N/A				1	2.5	2.5	7.5	20.2	54.4	317
Turbidity (NTU)	60	0	>50	5	8.3		1.4	2.6	3.5	10.2	20.5	38.7	224
Nutrients (mg/L)													
NH3 as N	60	26	N/A				0.02	0.02	0.02	0.03	0.08	0.14	0.37
NO2 + NO3 as N	60	0	>10	0	0		0.27	0.51	0.89	1.3	2.75	3.59	7.76
TKN as N	60	2	N/A				0.2	0.48	0.63	0.78	1.05	1.28	3.17
Total Phosphorus	55	0	N/A				0.04	0.07	0.09	0.11	0.18	0.27	0.59
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	144.7	15	25	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TOWN BRANCH AT SR 2109 NR GRAHAM

Station #: B1260000

Hydrologic Unit Code: 03030002

Latitude: 36.04734

Longitude: -79.36906

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-17

Time period: 01/26/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		4.8	5.6	6.7	8.7	11.1	13	15.8
	57	0	<5	1	1.8		4.8	5.6	6.7	8.7	11.1	13	15.8
pH (SU)	59	0	<6	0	0		6.8	7.1	7.3	7.5	7.6	7.8	8.5
	59	0	>9	0	0		6.8	7.1	7.3	7.5	7.6	7.8	8.5
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				71	151	214	268	290	318	435
Water Temperature (°C)	59	0	>32	0	0		1.4	6.2	9.1	15.1	20	24.6	27
Other													
Hardness (mg/L)	14	0	>100	1	7.1		49	63	81	87	95	105	110
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.2
Turbidity (NTU)	60	1	>50	1	1.7		1	1.4	2.6	3.7	8.4	30.5	60
Nutrients (mg/L)													
NH3 as N	60	39	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.18
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.04	0.13	0.35	0.53	0.73	4
TKN as N	60	3	N/A				0.2	0.2	0.23	0.3	0.41	0.71	1
Total Phosphorus	60	5	N/A				0.02	0.02	0.03	0.03	0.06	0.12	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	184.6	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MOADAMS CRK AT CORRIGDOR RD UPS OF DISCHARGE NR MEBANE

Station #: B1350000

Hydrologic Unit Code: 03030002

Latitude: 36.08852

Longitude: -79.28443

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-18-7

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	5	5.9		2.3	4.5	5.3	6.2	7.8	9.9	11.6
	85	0	<5	15	17.6	97.9	2.3	4.5	5.3	6.2	7.8	9.9	11.6
pH (SU)	85	0	<6	3	3.5		5.8	6.1	6.4	6.6	6.8	6.9	7.2
	85	0	>9	0	0		5.8	6.1	6.4	6.6	6.8	6.9	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				78	115	132	151	162	173	240
Water Temperature (°C)	85	0	>32	0	0		2.7	6.9	10.3	19.4	21.7	23	24.4
Other													
TSS (mg/L)	60	0	N/A				2	3.1	5	7	11	14.9	38
Turbidity (NTU)	60	0	>50	0	0		2	7.3	8.6	11.8	18.1	31	38.5
Nutrients (mg/L)													
NH3 as N	35	6	N/A				0.02	0.02	0.02	0.05	0.09	0.16	0.26
NO2 + NO3 as N	35	0	>10	0	0		0.13	0.15	0.24	0.3	0.46	0.69	1.11
TKN as N	35	4	N/A				0.2	0.2	0.31	0.46	0.64	0.77	1.07
Total Phosphorus	35	0	N/A				0.02	0.02	0.03	0.04	0.05	0.06	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	346	23	38.3	99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MOADAMS CRK AT SR 1940 GIBSON RD NR FLORENCE TOWN

Station #: B1380000

Hydrologic Unit Code: 03030002

Latitude: 36.08913

Longitude: -79.30747

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-18-7

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.4	6.7	7.4	9.4	12.2	13.8
	85	0	<5	0	0		5.9	6.4	6.7	7.4	9.4	12.2	13.8
pH (SU)	85	0	<6	0	0		6.4	6.8	7	7.2	7.4	7.4	7.6
	85	0	>9	0	0		6.4	6.8	7	7.2	7.4	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				100	220	286	401	474	559	681
Water Temperature (°C)	85	0	>32	0	0		1.8	6.8	11.3	20.8	23.1	24.6	27.3
Other													
TSS (mg/L)	60	10	N/A				1	2.5	3	5	7	12.6	28
Turbidity (NTU)	60	0	>50	2	3.3		3.5	4.1	4.8	7.8	11.4	20.8	60.4
Nutrients (mg/L)													
NH3 as N	60	6	N/A				0.02	0.02	0.05	0.11	0.18	0.38	6.32
NO2 + NO3 as N	60	0	>10	2	3.3		0.43	0.76	1.3	2.35	4.9	7.07	16.5
TKN as N	60	2	N/A				0.2	0.61	0.75	0.88	1.16	1.52	6.4
Total Phosphorus	55	0	N/A				0.12	0.17	0.21	0.33	0.47	0.67	1.76
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	129	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 2158 SWEPSONVILLE RD NR SWEPSONVILLE

Station #: B1440000

Hydrologic Unit Code: 03030002

Latitude: 36.02562

Longitude: -79.36821

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-(10.5)

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6	6.6	7.4	8.6	10.3	11.6	13.9
	85	0	<5	0	0		6	6.6	7.4	8.6	10.3	11.6	13.9
pH (SU)	85	0	<6	0	0		6.1	6.7	7	7.3	7.7	8.2	8.8
	85	0	>9	0	0		6.1	6.7	7	7.3	7.7	8.2	8.8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				70	98	144	215	367	484	672
Water Temperature (°C)	85	0	>32	0	0		2.5	7.6	12	21.3	25.1	27.4	29.6
Other													
TSS (mg/L)	60	13	N/A				2	2.5	2.6	6	15	43.5	280
Turbidity (NTU)	60	0	>50	5	8.3		1.3	2.5	3.5	9.8	20.9	37.2	221
Nutrients (mg/L)													
NH3 as N	60	26	N/A				0.02	0.02	0.02	0.03	0.06	0.13	0.34
NO2 + NO3 as N	60	0	>10	0	0		0.23	0.41	0.8	1.27	2.39	3.59	6.29
TKN as N	60	2	N/A				0.2	0.46	0.65	0.79	0.94	1.22	1.69
Total Phosphorus	55	0	N/A				0.04	0.07	0.09	0.12	0.2	0.29	0.65
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	139	12	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BIG ALAMANCE CRK AT NC 87 NR SWEPSONVILLE

Station #: B1940000

Hydrologic Unit Code: 03030002

Latitude: 36.02420

Longitude: -79.39430

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-19-(4.5)

Time period: 01/27/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.8	5.3	5.6	6.7	9.1	10.7	12.4
	85	0	<5	3	3.5		3.8	5.3	5.6	6.7	9.1	10.7	12.4
pH (SU)	85	0	<6	0	0		6.3	6.5	6.7	6.9	7.1	7.2	7.5
	85	0	>9	0	0		6.3	6.5	6.7	6.9	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				67	93	108	123	142	166	207
Water Temperature (°C)	85	0	>32	0	0		0.6	6.4	11.1	20.8	24.3	26.2	27.7
Other													
TSS (mg/L)	60	7	N/A				1	2.5	3	5	11.8	23.8	83
Turbidity (NTU)	60	0	>50	2	3.3		2.2	2.7	4.4	7.6	14	22.2	62.3
Nutrients (mg/L)													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.16
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.02	0.07	0.16	0.24	0.33	0.48
TKN as N	60	3	N/A				0.2	0.21	0.32	0.47	0.62	0.76	1.18
Total Phosphorus	55	11	N/A				0.02	0.02	0.03	0.04	0.05	0.13	0.48
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	171	12	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BIG ALAMANCE CRK AT SR 2116 AT SWEPSONSVILLE

Station #: B1960000

Hydrologic Unit Code: 03030002

Latitude: 36.01774

Longitude: -79.36703

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-19-(4.5)

Time period: 01/26/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	1	1.8		3.9	4.8	6	7.7	9.8	11.3	15.4
	56	0	<5	6	10.7	50.6	3.9	4.8	6	7.7	9.8	11.3	15.4
pH (SU)	60	0	<6	0	0		6.7	7	7.1	7.3	7.5	7.8	8.1
	60	0	>9	0	0		6.7	7	7.1	7.3	7.5	7.8	8.1
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				77	138	159	218	398	628	876
Water Temperature (°C)	60	0	>32	0	0		2.6	6.9	9.8	17.7	24.1	26.9	29.3
Other													
Hardness (mg/L)	14	0	>100	0	0		39	40	41	44	51	53	53
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	10	15.6	17
Turbidity (NTU)	59	0	>50	1	1.7		2.5	4.4	5.6	8.1	15	23	130
Nutrients (mg/L)													
NH3 as N	56	9	N/A				0.02	0.02	0.03	0.09	0.2	0.49	1.6
NO2 + NO3 as N	56	0	>10	0	0		0.18	0.25	0.37	0.53	1.7	2.66	4.8
TKN as N	56	0	N/A				0.47	0.56	0.63	0.75	1.1	1.3	2.3
Total Phosphorus	56	0	N/A				0.05	0.06	0.07	0.11	0.21	0.53	0.9
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	98.5	8	13.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: BIG ALAMANCE CRK AT SR 2116 AT SWEPSONSVILLE

Station #: B1960000

Hydrologic Unit Code: 03030002

Latitude: 36.01774

Longitude: -79.36703

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-19-(4.5)

Time period: 01/27/2009 to 03/23/2009

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	3	0	<4	0	0		9.8	9.8	9.8	11.6	12	12	12
	3	0	<5	0	0		9.8	9.8	9.8	11.6	12	12	12
pH (SU)	3	0	<6	0	0		7	7	7	7.1	7.4	7.4	7.4
	3	0	>9	0	0		7	7	7	7.1	7.4	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	3	0	N/A				128	128	128	178	215	215	215
Water Temperature (°C)	3	0	>32	0	0		5.9	5.9	5.9	6.7	10.7	10.7	10.7
Other													
TSS (mg/L)	3	0	N/A				2	2	2	4	8	8	8
Turbidity (NTU)	3	0	>50	0	0		5.3	5.3	5.3	5.9	10.4	10.4	10.4
Nutrients (mg/L)													
NH3 as N	3	2	N/A				0.02	0.02	0.02	0.02	0.22	0.22	0.22
NO2 + NO3 as N	3	0	>10	0	0		0.42	0.42	0.42	0.54	0.6	0.6	0.6
TKN as N	3	1	N/A				0.2	0.2	0.2	0.61	0.83	0.83	0.83
Total Phosphorus	3	0	N/A				0.03	0.03	0.03	0.06	0.22	0.22	0.22
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
3	32.3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 2171 AT SAXAPAHAW

Station #: B1980000

Hydrologic Unit Code: 03030002

Latitude: 35.94610

Longitude: -79.32210

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 16-(10.5)

Time period: 01/26/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		5.6	6.9	8	8.9	11.1	12.8	15.9
	56	0	<5	0	0		5.6	6.9	8	8.9	11.1	12.8	15.9
pH (SU)	59	0	<6	0	0		7	7.2	7.4	7.6	7.8	8.2	9.1
	59	0	>9	1	1.7		7	7.2	7.4	7.6	7.8	8.2	9.1
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				89	128	160	222	313	395	523
Water Temperature (°C)	59	0	>32	2	3.4		2.2	5.7	10.2	17.8	25.5	28.6	32.2
Other													
Hardness (mg/L)	14	0	>100	0	0		24	27	34	42	46	52	54
TSS (mg/L)	20	3	N/A				6.2	6.3	10.2	12	17.2	20.9	24
Turbidity (NTU)	60	0	>50	3	5		3.7	8.7	9.7	14	21.8	37.4	120
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	63.1	11	18.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 1005 NR SAXAPAHAW

Station #: B2000000

Hydrologic Unit Code: 03030002

Latitude: 35.89528

Longitude: -79.25849

Stream class: WS-V NSW

Agency: UCFRBA

NC stream index: 16-(10.5)

Time period: 01/19/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	60	0	<4	0	0		5.8	6.3	7.1	8.2	10.3	14.7
	60	0	<5	0	0		5.8	6.3	7.1	8.2	10.3	14.7
pH (SU)	60	0	<6	0	0		6.5	6.7	6.9	7.2	7.4	8.5
	60	0	>9	0	0		6.5	6.7	6.9	7.2	7.4	8.5
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				80	125	158	206	315	550
Water Temperature (°C)	60	0	>32	0	0		2.9	6.2	10.9	17.8	24.4	29.9
Other												
TSS (mg/L)	60	7	N/A				1	2.5	4	7	13	89
Turbidity (NTU)	60	0	>50	2	3.3		2.3	3.6	5.1	9.1	19.1	127
Nutrients (mg/L)												
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.04	0.07	0.22
NO2 + NO3 as N	60	0	>10	0	0		0.22	0.43	0.62	0.93	1.53	3.76
TKN as N	60	2	N/A				0.2	0.43	0.58	0.68	0.84	1.38
Total Phosphorus	55	1	N/A				0.02	0.05	0.08	0.11	0.14	0.42
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	89.5	11	18.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 1713 NR BYNUM

Station #: B2100000

Hydrologic Unit Code: 03030002

Latitude: 35.77165

Longitude: -79.14497

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 16-(28.875)

Time period: 01/13/2009 to 01/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	128	0	<4	0	0		6.5	7.4	8.2	9.8	12.2	13.2	16.1
	128	0	<5	0	0		6.5	7.4	8.2	9.8	12.2	13.2	16.1
pH (SU)	128	0	<6	0	0		6.3	7.3	7.5	7.9	8.3	8.5	9.3
	128	0	>9	3	2.3		6.3	7.3	7.5	7.9	8.3	8.5	9.3
Spec. conductance (umhos/cm at 25°C)	128	0	N/A				65	107	131	196	285	398	635
Water Temperature (°C)	129	0	>32	1	0.8		1.4	5.9	9.3	18	25.9	28.7	32.2
Other													
Hardness (mg/L)	14	0	>100	0	0		30	31	33	36	46	52	54
TSS (mg/L)	128	67	N/A				6.2	6.2	6.2	6.6	12	28.1	344
Turbidity (NTU)	60	0	>50	1	1.7		1.3	2.3	4.5	12	20.8	39.3	55
Nutrients (mg/L)													
NH3 as N	128	49	N/A				0.02	0.02	0.02	0.02	0.05	0.08	0.42
NO2 + NO3 as N	128	0	>10	0	0		0.15	0.42	0.55	0.88	1.6	2.2	4.2
TKN as N	128	0	N/A				0.41	0.5	0.56	0.65	0.75	0.89	1.9
Total Phosphorus	127	0	N/A				0.03	0.06	0.07	0.1	0.13	0.2	0.58
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	44.8	2	3.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 1713 NR BYNUM

Station #: B2100000

Hydrologic Unit Code: 03030002

Latitude: 35.77165 **Longitude:** -79.14497

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-(28.875)

Time period: 01/19/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.4	7.6	8.4	9.8	11.3	12.6	14.7
	60	0	<5	0	0		6.4	7.6	8.4	9.8	11.3	12.6	14.7
pH (SU)	60	0	<6	0	0		6.4	6.9	7.2	7.7	8.2	8.6	9.2
	60	0	>9	2	3.3		6.4	6.9	7.2	7.7	8.2	8.6	9.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				80	114	141	196	306	448	558
Water Temperature (°C)	60	0	>32	0	0		2.3	5.9	10.3	17.2	25.9	29.8	30.8
Other													
TSS (mg/L)	60	9	N/A				1	2.5	3	6	10.8	18	187
Turbidity (NTU)	60	0	>50	2	3.3		1.5	2	2.8	8	16.9	29.7	149
Nutrients (mg/L)													
NH3 as N	60	32	N/A				0.02	0.02	0.02	0.02	0.04	0.11	0.19
NO2 + NO3 as N	60	0	>10	0	0		0.12	0.32	0.56	0.9	1.52	2.18	3.05
TKN as N	60	4	N/A				0.2	0.35	0.47	0.66	0.81	1.06	1.36
Total Phosphorus	55	1	N/A				0.02	0.05	0.07	0.09	0.12	0.26	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	51.2	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROBESON CRK AT BOAT ACCESS OFF SR 1943 NR HANKS CHAPEL

Station #: B2450000

Hydrologic Unit Code: 03030002

Latitude: 35.70315

Longitude: -79.10027

Stream class: WS-IV B NSW CA

Agency: NCAMBNT

NC stream index: 16-(37.5)

Time period: 01/13/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4	5.3	7	9.8	10.8	11.9	13.9
	32	0	<5	2	6.2		4	5.3	7	9.8	10.8	11.9	13.9
pH (SU)	32	0	<6	0	0		6.5	7	7.1	7.5	8	8.8	9.3
	32	0	>9	2	6.2		6.5	7	7.1	7.5	8	8.8	9.3
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				93	101	115	155	219	289	322
Water Temperature (°C)	32	0	>32	0	0		3.1	7.2	8.9	20.9	26.9	29.9	31.5
Other													
Chlorophyll a (ug/L)	32	0	>40	3	9.4		1	3	4	20	36	57	100
Hardness (mg/L)	14	0	>100	0	0		29	30	31	37	40	43	44
TSS (mg/L)	20	4	N/A				6.2	6.2	6.6	8.6	12	15.9	20
Turbidity (NTU)	32	0	>25	2	6.2		5	7	8.3	13	19	24.4	31
Nutrients (mg/L)													
NH3 as N	32	13	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.13
NO2 + NO3 as N	32	1	>10	0	0		0.02	0.1	0.24	0.51	0.66	0.93	1.8
TKN as N	32	0	N/A				0.22	0.5	0.64	0.81	0.98	1.07	1.4
Total Phosphorus	32	0	N/A				0.03	0.06	0.07	0.08	0.09	0.12	0.15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	17.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROBESON CRK AT BOAT ACCESS OFF SR 1943 NR HANKS CHAPEL

Station #: B2450000

Hydrologic Unit Code: 03030002

Latitude: 35.70315

Longitude: -79.10027

Stream class: WS-IV B NSW CA

Agency: UCFRBA

NC stream index: 16-(37.5)

Time period: 01/19/2009 to 04/26/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	0	0		4.6	6.5	8.1	9.3	11.1	12.6	13.8
	21	0	<5	1	4.8		4.6	6.5	8.1	9.3	11.1	12.6	13.8
pH (SU)	21	0	<6	1	4.8		6	6.4	6.6	7.2	7.8	8.8	9.1
	21	0	>9	1	4.8		6	6.4	6.6	7.2	7.8	8.8	9.1
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				66	84	120	160	252	315	421
Water Temperature (°C)	21	0	>32	0	0		2.8	5.4	9.8	21.6	28.4	30.2	31.8
Other													
TSS (mg/L)	16	0	N/A				2	3.4	6.5	9	17.2	24.4	30
Turbidity (NTU)	16	0	>25	3	18.8	78.9	2.2	5.9	9.2	12.3	16.8	43.8	53.7
Nutrients (mg/L)													
NH3 as N	16	10	N/A				0.02	0.02	0.02	0.02	0.07	0.13	0.15
NO2 + NO3 as N	16	0	>10	0	0		0.04	0.07	0.3	0.52	0.66	0.92	1.49
TKN as N	16	3	N/A				0.2	0.2	0.23	0.62	0.86	1.07	1.1
Total Phosphorus	11	2	N/A				0.02	0.02	0.04	0.06	0.1	0.33	0.37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
16	28.3	1	6.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW HOPE CRK AT NC 54 NR DURHAM

Station #: B3020000

Hydrologic Unit Code: 03030002

Latitude: 35.91672

Longitude: -78.97043

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-41-1-(11.5)

Time period: 01/15/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	27	31.8	> 99.9	0.6	2	2.9	5.1	7.4	9.5	11.9
	85	0	<5	41	48.2	> 99.9	0.6	2	2.9	5.1	7.4	9.5	11.9
pH (SU)	85	0	<6	4	4.7		5.3	6.1	6.5	6.7	6.9	7	7.3
	85	0	>9	0	0		5.3	6.1	6.5	6.7	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				76	94	115	136	161	187	264
Water Temperature (°C)	85	0	>32	0	0		2	6.3	11.5	19.3	23.7	26	27.8
Other													
TSS (mg/L)	60	4	N/A				2.5	3	5	14	22	38.7	60
Turbidity (NTU)	60	0	>50	3	5		3.4	7.7	12	21.4	30.3	44.2	152
Nutrients (mg/L)													
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.04	0.08	0.12	0.21
NO2 + NO3 as N	60	10	>10	0	0		0.02	0.02	0.04	0.09	0.16	0.22	0.45
TKN as N	60	4	N/A				0.2	0.25	0.41	0.57	0.76	0.91	1.22
Total Phosphorus	55	3	N/A				0.02	0.05	0.06	0.09	0.11	0.2	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	158.9	15	25	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: THIRD FORK CRK AT NC 54 NR DURHAM

Station #: B3025000

Hydrologic Unit Code: 03030002

Latitude: 35.91867

Longitude: -78.95480

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-41-1-12-(2)

Time period: 01/15/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	16	26.7	>99.9	1.1	1.5	3.8	5.7	7.8	9.9	12.6
	60	0	<5	21	35	>99.9	1.1	1.5	3.8	5.7	7.8	9.9	12.6
pH (SU)	60	0	<6	1	1.7		5.9	6.2	6.6	6.9	7	7.1	7.2
	60	0	>9	0	0		5.9	6.2	6.6	6.9	7	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				66	144	176	222	258	303	502
Water Temperature (°C)	60	0	>32	0	0		1	4.7	10.4	15.2	22	24.2	27.1
Other													
TSS (mg/L)	60	5	N/A				1	2.5	5	10	24	37.4	188
Turbidity (NTU)	60	0	>50	7	11.7	60.5	2.6	7.4	12.2	17.3	32.9	55.6	170
Nutrients (mg/L)													
NH3 as N	60	13	N/A				0.02	0.02	0.03	0.05	0.08	0.14	0.23
NO2 + NO3 as N	60	8	>10	0	0		0.02	0.02	0.06	0.14	0.23	0.29	0.47
TKN as N	60	4	N/A				0.2	0.27	0.47	0.72	0.93	1.09	1.31
Total Phosphorus	55	1	N/A				0.02	0.07	0.12	0.15	0.19	0.29	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	323.9	20	33.3	98.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW HOPE CRK AT SR 1107 NR BLANDS

Station #: B3040000

Hydrologic Unit Code: 03030002

Latitude: 35.88474

Longitude: -78.96563

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 16-41-1-(11.5)

Time period: 01/13/2009 to 01/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	128	0	<4	1	0.8		3.6	5.6	6	6.9	8.6	10.6	12.4
	128	0	<5	1	0.8		3.6	5.6	6	6.9	8.6	10.6	12.4
pH (SU)	128	0	<6	0	0		6.1	6.6	6.8	7.1	7.3	7.4	7.7
	128	0	>9	0	0		6.1	6.6	6.8	7.1	7.3	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	128	0	N/A				71	140	210	322	457	514	609
Water Temperature (°C)	129	0	>32	0	0		3.7	6.7	10	18	23.8	25.5	27.1
Other													
Hardness (mg/L)	14	0	>100	0	0		23	28	35	45	47	51	52
TSS (mg/L)	128	27	N/A				6.2	6.2	7.3	16.5	25.8	42.4	152
Turbidity (NTU)	60	0	>50	5	8.3		1.9	3.8	9.5	20	32	50	150
Nutrients (mg/L)													
NH3 as N	128	9	N/A				0.02	0.02	0.03	0.05	0.08	0.11	0.64
NO2 + NO3 as N	128	0	>10	2	1.6		0.17	0.7	1.3	3.2	5.78	7.91	12
TKN as N	128	0	N/A				0.48	0.73	0.85	0.96	1.08	1.2	1.8
Total Phosphorus	127	0	N/A				0.05	0.09	0.13	0.19	0.25	0.44	0.96
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	114.3	9	15.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW HOPE CRK AT SR 1107 NR BLANDS

Station #: B3040000

Hydrologic Unit Code: 03030002

Latitude: 35.88474

Longitude: -78.96563

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-41-1-(11.5)

Time period: 01/15/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		4	5.4	6	6.6	7.6	9.5	12.4
	85	0	<5	3	3.5		4	5.4	6	6.6	7.6	9.5	12.4
pH (SU)	85	0	<6	5	5.9		4.8	6.2	6.6	6.9	7.1	7.2	7.3
	85	0	>9	0	0		4.8	6.2	6.6	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				80	142	212	328	481	518	593
Water Temperature (°C)	85	0	>32	0	0		4.1	8.5	13.3	21.3	24.6	26	28.4
Other													
TSS (mg/L)	60	3	N/A				2	3	7.2	15	24.8	38	109
Turbidity (NTU)	60	0	>50	4	6.7		1.9	4.2	8.6	13.4	28.8	44.3	112
Nutrients (mg/L)													
NH3 as N	60	13	N/A				0.02	0.02	0.02	0.05	0.08	0.16	0.56
NO2 + NO3 as N	60	0	>10	8	13.3	75.1	0.22	0.54	1.2	2.84	6.01	10.29	12.4
TKN as N	60	5	N/A				0.2	0.27	0.68	0.86	1.12	1.29	1.64
Total Phosphorus	55	0	N/A				0.07	0.08	0.14	0.17	0.26	0.47	1.25
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	186.5	12	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTHEAST CRK AT SR 1102 SEDWICK RD NR RTP

Station #: B3300000

Hydrologic Unit Code: 03030002

Latitude: 35.88702

Longitude: -78.89943

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-41-1-17-(0.7)

Time period: 01/15/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	45	52.9	> 99.9	0.4	1.7	2.3	3.7	6.1	8.7	12.2
	85	0	<5	60	70.6	> 99.9	0.4	1.7	2.3	3.7	6.1	8.7	12.2
pH (SU)	85	0	<6	5	5.9		5.5	6.1	6.4	6.7	6.8	7	7.4
	85	0	>9	0	0		5.5	6.1	6.4	6.7	6.8	7	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				71	119	146	178	218	260	650
Water Temperature (°C)	85	0	>32	0	0		1.8	6.1	12.1	19.2	23.7	25.7	26.9
Other													
TSS (mg/L)	60	1	N/A				1	6	10	15	26	34	55
Turbidity (NTU)	60	0	>50	7	11.7	60.5	4.2	12.3	17.5	22.6	34.8	54.1	83.6
Nutrients (mg/L)													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.03	0.08	0.14	0.42
NO2 + NO3 as N	60	18	>10	0	0		0.02	0.02	0.02	0.05	0.09	0.12	0.49
TKN as N	60	3	N/A				0.2	0.3	0.56	0.76	0.88	1.07	1.21
Total Phosphorus	55	2	N/A				0.02	0.04	0.06	0.08	0.11	0.18	0.62
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	149.8	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTHEAST CRK AT SR 1100 NR NELSON

Station #: B3660000

Hydrologic Unit Code: 03030002

Latitude: 35.87243

Longitude: -78.91322

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 16-41-1-17-(0.7)

Time period: 01/13/2009 to 01/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	128	0	<4	0	0		4.4	5.2	5.6	6.6	8.4	9.5	12
	128	0	<5	6	4.7		4.4	5.2	5.6	6.6	8.4	9.5	12
pH (SU)	128	0	<6	0	0		6.4	6.9	7.1	7.3	7.5	7.6	7.8
	128	0	>9	0	0		6.4	6.9	7.1	7.3	7.5	7.6	7.8
Spec. conductance (umhos/cm at 25°C)	128	0	N/A				80	224	336	506	584	632	996
Water Temperature (°C)	129	0	>32	0	0		4.2	9.3	12.8	17.8	23.4	25.1	26.5
Other													
Hardness (mg/L)	14	0	>100	0	0		35	36	52	61	68	74	77
TSS (mg/L)	128	55	N/A				6.2	6.2	7.3	12	15.8	45.1	558
Turbidity (NTU)	60	0	>50	6	10		3.4	5.4	8	12	24.2	54.5	90
Nutrients (mg/L)													
NH3 as N	128	21	N/A				0.02	0.02	0.02	0.04	0.06	0.1	1.4
NO2 + NO3 as N	128	0	>10	0	0		0.12	0.28	0.71	1.4	2.57	3.3	5.2
TKN as N	128	0	N/A				0.59	0.73	0.79	0.9	1	1.1	2.6
Total Phosphorus	127	0	N/A				0.04	0.08	0.11	0.18	0.31	0.46	1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	152.9	10	16.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTHEAST CRK AT SR 1731 O KELLY CHURCH RD NR DURHAM
Station #: B3670000 **Hydrologic Unit Code:** 03030002
Latitude: 35.85550 **Longitude:** -78.93968 **Stream class:** WS-IV NSW
Agency: UCFRBA **NC stream index:** 16-41-1-17-(0.7)

Time period: 01/15/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.7	5.9	6.5	7	8.1	9.5	12.3
	85	0	<5	2	2.4		3.7	5.9	6.5	7	8.1	9.5	12.3
pH (SU)	85	0	<6	1	1.2		5.7	6.6	7	7.2	7.4	7.6	7.9
	85	0	>9	0	0		5.7	6.6	7	7.2	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				116	201	326	463	580	613	662
Water Temperature (°C)	85	0	>32	0	0		4.7	8.2	14.5	21.2	24.3	26.2	27.4
Other													
TSS (mg/L)	60	3	N/A				1	3	6	14.5	27	52.9	294
Turbidity (NTU)	60	0	>50	5	8.3		2.4	5.2	9.1	15.9	29.2	48.6	181
Nutrients (mg/L)													
NH3 as N	60	24	N/A				0.02	0.02	0.02	0.02	0.05	0.07	0.19
NO2 + NO3 as N	60	0	>10	0	0		0.16	0.21	0.42	1.14	1.8	3.54	5.17
TKN as N	60	3	N/A				0.2	0.57	0.76	0.9	1.11	1.25	1.3
Total Phosphorus	55	0	N/A				0.02	0.06	0.11	0.16	0.25	0.42	0.96
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	210.2	12	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MORGAN CRK AT MASON FARM WWTP ENTRANCE AT CHAPEL HILL

Station #: B3899180

Hydrologic Unit Code: 03030002

Latitude: 35.89870

Longitude: -79.02630

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-41-2-(5.5)

Time period: 01/15/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4.6	5.9	6.8	7.4	8.9	10.4	14
	85	0	<5	1	1.2		4.6	5.9	6.8	7.4	8.9	10.4	14
pH (SU)	85	0	<6	1	1.2		5.6	6.5	6.7	6.9	7.1	7.3	7.4
	85	0	>9	0	0		5.6	6.5	6.7	6.9	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				63	113	138	183	260	362	706
Water Temperature (°C)	85	0	>32	0	0		2.6	7	12	18.8	23.2	24.9	27.6
Other													
TSS (mg/L)	60	23	N/A				1	2.5	2.5	3	6.8	15.9	200
Turbidity (NTU)	60	0	>50	2	3.3		1.2	1.9	2.6	5	8.9	17	130
Nutrients (mg/L)													
NH3 as N	60	38	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.12
NO2 + NO3 as N	60	0	>10	0	0		0.05	0.21	0.3	0.5	0.95	2.25	7.6
TKN as N	60	8	N/A				0.2	0.2	0.28	0.44	0.64	0.79	2.54
Total Phosphorus	55	3	N/A				0.02	0.03	0.05	0.07	0.11	0.18	0.6
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	190.6	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MORGAN CRK AT SR 1726 NR FARRINGTON

Station #: B3900000

Hydrologic Unit Code: 03030002

Latitude: 35.86115

Longitude: -79.01000

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 16-41-2-(5.5)

Time period: 01/13/2009 to 01/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	128	0	<4	0	0		5	5.6	6.3	7.2	9.3	10.7	13
	128	0	<5	0	0		5	5.6	6.3	7.2	9.3	10.7	13
pH (SU)	128	0	<6	0	0		6.1	6.9	7.1	7.3	7.4	7.6	8
	128	0	>9	0	0		6.1	6.9	7.1	7.3	7.4	7.6	8
Spec. conductance (umhos/cm at 25°C)	128	0	N/A				88	208	302	426	520	616	750
Water Temperature (°C)	129	0	>32	0	0		2.1	6.3	10	17.2	23.7	25.5	27.1
Other													
Hardness (mg/L)	14	0	>100	0	0		41	42	45	50	53	56	57
TSS (mg/L)	128	55	N/A				6.2	6.2	6.2	8.2	18.8	36.2	94
Turbidity (NTU)	60	0	>50	1	1.7		3.1	4.2	5.9	8.8	19.8	33.6	65
Nutrients (mg/L)													
NH3 as N	128	17	N/A				0.02	0.02	0.02	0.04	0.07	0.09	0.34
NO2 + NO3 as N	128	0	>10	7	5.5		0.6	1.68	2.43	3.8	5.38	9.73	14
TKN as N	128	2	N/A				0.2	0.6	0.69	0.76	0.86	0.97	1.6
Total Phosphorus	127	0	N/A				0.04	0.07	0.1	0.15	0.22	0.36	0.74
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	134.9	6	10.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MORGAN CRK AT SR 1726 NR FARRINGTON

Station #: B3900000

Hydrologic Unit Code: 03030002

Latitude: 35.86115

Longitude: -79.01000

Stream class: WS-IV NSW

Agency: UCFRBA

NC stream index: 16-41-2-(5.5)

Time period: 01/15/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.4	5.7	6.3	6.8	7.9	9.9	13.5
	85	0	<5	0	0		5.4	5.7	6.3	6.8	7.9	9.9	13.5
pH (SU)	85	0	<6	1	1.2		6	6.7	7	7.1	7.2	7.4	7.6
	85	0	>9	0	0		6	6.7	7	7.1	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				104	226	329	457	556	610	708
Water Temperature (°C)	85	0	>32	0	0		3.3	7.6	13.6	20.6	23.9	25.3	27.1
Other													
TSS (mg/L)	60	15	N/A				2	2.5	2.5	7	17.8	27.8	124
Turbidity (NTU)	60	0	>50	1	1.7		1.5	3.4	4.7	7.9	13.9	20.8	78.8
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.03	0.07	0.11	0.29
NO2 + NO3 as N	60	0	>10	3	5		0.28	1.5	2.96	4.4	6.16	8.3	12.6
TKN as N	60	10	N/A				0.2	0.2	0.35	0.58	0.86	1.02	2.07
Total Phosphorus	55	0	N/A				0.03	0.06	0.08	0.14	0.2	0.33	0.76
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	160.2	13	21.7	57.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV BELOW JORDAN DAM NR MONCURE

Station #: B4050000

Hydrologic Unit Code: 03030002

Latitude: 35.65342

Longitude: -79.06728

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 16-(42)

Time period: 02/09/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		5.5	5.9	6.8	8.1	11.7	13.1	14
	29	0	<5	0	0		5.5	5.9	6.8	8.1	11.7	13.1	14
pH (SU)	29	0	<6	0	0		6.6	6.8	7.1	7.3	7.5	7.7	7.7
	29	0	>9	0	0		6.6	6.8	7.1	7.3	7.5	7.7	7.7
Spec. conductance (umhos/cm at 25°C)	28	0	N/A				125	132	144	172	206	226	244
Water Temperature (°C)	29	0	>32	0	0		6.1	7.3	10.2	20.7	26	27.5	28.1
Other													
Hardness (mg/L)	14	0	>100	0	0		22	27	33	34	37	58	76
TSS (mg/L)	19	8	N/A				6.2	6.2	6.2	7	9.8	12	12
Turbidity (NTU)	29	0	>50	0	0		3.1	4.1	5.1	7.8	13	16	27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
29	7.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAW RIV AT SR 1011 OLD US 1 NR HAYWOOD

Station #: B4080000

Hydrologic Unit Code: 03030002

Latitude: 35.61642

Longitude: -79.05688

Stream class: WS-IV

Agency: UCFRBA

NC stream index: 16-(42)

Time period: 01/19/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.6	5.1	5.7	6.9	9.2	11.6	13.1
	85	0	<5	5	5.9		3.6	5.1	5.7	6.9	9.2	11.6	13.1
pH (SU)	85	0	<6	1	1.2		6	6.4	6.7	6.9	7.1	7.2	7.7
	85	0	>9	0	0		6	6.4	6.7	6.9	7.1	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				92	129	152	166	198	230	268
Water Temperature (°C)	85	0	>32	0	0		4.5	8.1	13.2	22.7	26.9	28.1	30
Other													
TSS (mg/L)	60	0	N/A				4	5	6	8	11	14	30
Turbidity (NTU)	60	0	>50	1	1.7		2.9	4.4	5.7	7.6	11.4	18.8	68.5
Nutrients (mg/L)													
NH3 as N	60	6	N/A				0.02	0.02	0.03	0.08	0.13	0.18	0.29
NO2 + NO3 as N	60	0	>10	0	0		0.04	0.08	0.21	0.42	0.62	0.73	1.12
TKN as N	60	3	N/A				0.2	0.49	0.58	0.75	0.88	1	1.07
Total Phosphorus	55	1	N/A				0.02	0.03	0.05	0.06	0.07	0.08	0.34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	19.8	2	3.3										

Key:

result: number of observations

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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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: W FORK DEEP RIV AT SR 1818 NR HIGH POINT

Station #: B4210000

Hydrologic Unit Code: 03030003

Latitude: 36.04658

Longitude: -80.01407

Stream class: WS-IV CA*

Agency: NCAMBNT

NC stream index: 17-3-(0.7)

Time period: 01/26/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		5.8	7.1	7.7	8.9	9.8	11.6	14.9
	57	0	<5	0	0		5.8	7.1	7.7	8.9	9.8	11.6	14.9
pH (SU)	58	0	<6	0	0		6.7	6.9	7.1	7.3	7.4	7.5	7.8
	58	0	>9	0	0		6.7	6.9	7.1	7.3	7.4	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				51	77	88	97	102	108	276
Water Temperature (°C)	58	0	>32	0	0		2.9	6.5	10.3	15.9	20.3	22.7	25.1
Other													
Chlorophyll a (ug/L)	54	20	>40	0	0		1	1	1	2	2	5	22
Hardness (mg/L)	14	0	>100	0	0		20	22	25	30	31	32	32
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	9.1	29.8	134.2	548
Turbidity (NTU)	59	0	>50	8	13.6	76.5	2.8	4	5.8	10	21	65	500
Nutrients (mg/L)													
NH3 as N	59	23	N/A				0.02	0.02	0.02	0.02	0.03	0.03	0.07
NO2 + NO3 as N	59	0	>10	0	0		0.23	0.33	0.4	0.5	0.6	0.65	0.74
TKN as N	59	20	N/A				0.2	0.2	0.2	0.21	0.33	0.51	1.1
Total Phosphorus	59	0	N/A				0.02	0.02	0.02	0.03	0.06	0.15	0.7
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	243.9	15	25.4	81.2									

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: E FORK DEEP RIV AT SR 1541 NR HIGH POINT

Station #: B4240000

Hydrologic Unit Code: 03030003

Latitude: 36.03727

Longitude: -79.94576

Stream class: WS-IV*

Agency: NCAMBNT

NC stream index: 17-2-(0.3)

Time period: 02/03/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		5.6	6.7	7.3	8	11.3	13.3	15.8
	56	0	<5	0	0		5.6	6.7	7.3	8	11.3	13.3	15.8
pH (SU)	58	0	<6	0	0		6.8	7.2	7.3	7.5	7.7	7.8	8.2
	58	0	>9	0	0		6.8	7.2	7.3	7.5	7.7	7.8	8.2
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				52	77	94	132	151	188	668
Water Temperature (°C)	58	0	>32	0	0		2.8	6.1	10.5	17.3	22	24.9	27.1
Other													
Hardness (mg/L)	14	0	>100	0	0		20	22	25	48	50	52	53
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	17.5	71.2	126
Turbidity (NTU)	59	0	>50	4	6.8		2.3	3.5	4.7	12	17	40	140
Nutrients (mg/L)													
NH3 as N	59	24	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.4
NO2 + NO3 as N	59	0	>10	0	0		0.05	0.13	0.17	0.22	0.28	0.35	0.44
TKN as N	59	2	N/A				0.2	0.22	0.3	0.36	0.49	0.59	1.8
Total Phosphorus	59	0	N/A				0.02	0.03	0.03	0.05	0.07	0.1	0.21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	153.5	11	18.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 1113 KIVETT DR NR HAYWORTH SPRING

Station #: B4350000

Hydrologic Unit Code: 03030003

Latitude: 35.95942

Longitude: -79.90605

Stream class: WS-IV CA*

Agency: UCFRBA

NC stream index: 17-(4)

Time period: 01/26/2009 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	3	3.5		1.5	5	6.2	8	9.7	11	11.9
	85	0	<5	9	10.6	51.8	1.5	5	6.2	8	9.7	11	11.9
pH (SU)	85	0	<6	0	0		6	6.5	6.8	6.9	7.2	7.5	8.5
	85	0	>9	0	0		6	6.5	6.8	6.9	7.2	7.5	8.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				67	93	102	128	154	198	302
Water Temperature (°C)	85	0	>32	0	0		2.3	6.8	11.2	22.8	26.4	27.8	30.9
Other													
TSS (mg/L)	60	2	N/A				1	4	5.2	9	12.8	19	331
Turbidity (NTU)	60	0	>50	1	1.7		2.1	4	6.3	9.5	17.2	35	72.8
Nutrients (mg/L)													
NH3 as N	60	40	N/A				0.02	0.02	0.02	0.02	0.03	0.08	0.14
NO2 + NO3 as N	60	10	>10	0	0		0.02	0.02	0.07	0.12	0.22	0.3	0.39
TKN as N	60	3	N/A				0.2	0.26	0.44	0.59	0.7	1.01	1.42
Total Phosphorus	55	3	N/A				0.02	0.03	0.04	0.05	0.07	0.14	0.4
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	65.5	10	16.7										

Key:

result: number of observations

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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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: RICHLAND CRK AT SR 1154 KERSEY VALLEY RD NR HIGH POINT

Station #: B4380000

Hydrologic Unit Code: 03030003

Latitude: 35.94100

Longitude: -79.93220

Stream class: WS-IV CA*

Agency: UCFRBA

NC stream index: 17-7-(4)

Time period: 01/26/2009 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.5	6.4	7.1	8	10	11.1	12.9
	85	0	<5	0	0		5.5	6.4	7.1	8	10	11.1	12.9
pH (SU)	85	0	<6	0	0		6.1	6.5	6.8	7	7.2	7.4	7.6
	85	0	>9	0	0		6.1	6.5	6.8	7	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				56	96	126	179	204	223	938
Water Temperature (°C)	85	0	>32	0	0		0.5	5.9	10.7	20.7	23.9	26	29.8
Other													
TSS (mg/L)	60	18	N/A				1	2	2.5	3	9	23.2	184
Turbidity (NTU)	60	0	>50	4	6.7		1.3	2.2	3.4	7.7	26.3	43.8	108
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.02	0.05	0.08	0.1	0.16	0.24	1.82
NO2 + NO3 as N	60	0	>10	0	0		0.11	0.29	0.34	0.44	0.56	0.65	0.84
TKN as N	60	6	N/A				0.16	0.2	0.4	0.49	0.7	0.85	3.53
Total Phosphorus	55	13	N/A				0.02	0.02	0.02	0.04	0.08	0.2	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	362.2	23	38.3	99.9									

Key:

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

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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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: RANDLEMAN LAKE AT SR 1921 NR RANDLEMAN

Station #: B4614500

Hydrologic Unit Code: 03030003

Latitude: 35.90618

Longitude: -79.85648

Stream class: WS-IV CA *

Agency: UCFRBA

NC stream index: 17-(4)

Time period: 01/26/2009 to 04/01/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	0	0		4.6	5.5	7.1	9.3	10.8	11.7	12.3
	21	0	<5	1	4.8		4.6	5.5	7.1	9.3	10.8	11.7	12.3
pH (SU)	21	0	<6	0	0		6.1	6.1	6.5	7.1	8.4	8.6	8.7
	21	0	>9	0	0		6.1	6.1	6.5	7.1	8.4	8.6	8.7
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				77	101	148	172	188	215	232
Water Temperature (°C)	21	0	>32	0	0		4.3	5.6	10	19	27.6	29.2	29.8
Other													
TSS (mg/L)	16	0	N/A				4	4	7.2	9.5	18.5	32.6	34
Turbidity (NTU)	16	0	>25	4	25	93.1	4.6	4.7	6	9.3	25.3	65.2	74.9
Nutrients (mg/L)													
NH3 as N	16	7	N/A				0.02	0.02	0.02	0.03	0.07	0.12	0.14
NO2 + NO3 as N	16	4	>10	0	0		0.02	0.02	0.02	0.17	0.32	0.41	0.43
TKN as N	16	4	N/A				0.2	0.2	0.2	0.66	0.8	1.25	1.67
Total Phosphorus	11	0	N/A				0.03	0.04	0.07	0.11	0.4	0.54	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
16	17.1	1	6.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MUDDY CRK AT SR 1917 NR GLENOLA

Station #: B4621000

Hydrologic Unit Code: 03030003

Latitude: 35.89579

Longitude: -79.91951

Stream class: WS-IV*

Agency: UCFRBA

NC stream index: 17-9-(1)

Time period: 05/14/2010 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	40	0	<4	1	2.5		3.5	5.6	6.1	8	9.8	11.4	12
	40	0	<5	2	5		3.5	5.6	6.1	8	9.8	11.4	12
pH (SU)	40	0	<6	1	2.5		5.7	6.3	6.6	6.9	7.1	7.2	7.3
	40	0	>9	0	0		5.7	6.3	6.6	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				48	95	114	157	184	201	550
Water Temperature (°C)	40	0	>32	0	0		0.4	3	7.5	14.5	20.7	23.2	24.1
Other													
TSS (mg/L)	40	16	N/A				2	2.5	2.5	4.5	9.5	31.1	157
Turbidity (NTU)	40	0	>50	4	10		1.3	2.4	3.5	6.6	22	55.2	150
Nutrients (mg/L)													
NH3 as N	40	11	N/A				0.02	0.02	0.02	0.03	0.04	0.1	0.14
NO2 + NO3 as N	40	0	>10	0	0		0.12	0.15	0.19	0.36	0.45	0.54	0.65
TKN as N	40	5	N/A				0.19	0.2	0.37	0.5	0.63	0.88	1.22
Total Phosphorus	40	0	N/A				0.03	0.06	0.07	0.09	0.11	0.15	0.23
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
40	407.1	18	45	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MUDDY CRK AT SR 1922 NR GLENOLA

Station #: B4625000

Hydrologic Unit Code: 03030003

Latitude: 35.88364

Longitude: -79.89502

Stream class: WS-IV*

Agency: UCFRBA

NC stream index: 17-9-(1)

Time period: 01/26/2009 to 10/24/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<4	0	0		4.3	4.6	6.2	8	9.5	11.6	11.8
	20	0	<5	2	10		4.3	4.6	6.2	8	9.5	11.6	11.8
pH (SU)	20	0	<6	1	5		6	6.2	6.4	6.6	6.9	7.2	7.5
	20	0	>9	0	0		6	6.2	6.4	6.6	6.9	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				80	84	97	122	159	176	177
Water Temperature (°C)	20	0	>32	0	0		3.6	3.8	9.5	13.2	23.3	24.4	25.9
Other													
TSS (mg/L)	20	1	N/A				1	1.1	4	6	14.8	69	94
Turbidity (NTU)	20	0	>50	4	20	86.7	2.2	2.7	7.4	17.3	46.5	80.6	120
Nutrients (mg/L)													
NH3 as N	20	11	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.09
NO2 + NO3 as N	20	0	>10	0	0		0.04	0.06	0.26	0.31	0.41	0.5	0.63
TKN as N	20	5	N/A				0.2	0.2	0.23	0.5	0.75	1.05	1.16
Total Phosphorus	15	1	N/A				0.02	0.03	0.04	0.07	0.18	0.34	0.37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
20	397.1	8	40	96.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT US 220 BUS MAIN ST AT RANDLEMAN

Station #: B4770500

Hydrologic Unit Code: 03030003

Latitude: 35.82330

Longitude: -79.80330

Stream class: C

Agency: UCFRBA

NC stream index: 17-(10.5)

Time period: 01/26/2009 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6	7	7.6	8.3	9.8	10.9	12.4
	85	0	<5	0	0		6	7	7.6	8.3	9.8	10.9	12.4
pH (SU)	85	0	<6	0	0		6.2	6.6	6.8	7	7.2	7.3	9.1
	85	0	>9	1	1.2		6.2	6.6	6.8	7	7.2	7.3	9.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				94	160	167	175	186	215	221
Water Temperature (°C)	85	0	>32	0	0		3.6	7.2	12.7	17	20.1	24.4	26.8
Other													
TSS (mg/L)	60	10	N/A				2	2.5	3	4	6	9	15
Turbidity (NTU)	60	0	>50	0	0		2.3	3	3.7	5	7.5	10.4	21.4
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.07	0.2	0.39	0.53
NO2 + NO3 as N	60	0	N/A				0.03	0.04	0.14	0.28	0.43	0.54	0.66
TKN as N	60	3	N/A				0.2	0.32	0.51	0.69	0.8	0.89	1.06
Total Phosphorus	55	9	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.42
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	41.3	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 2122 AT WORTHVILLE

Station #: B4800000

Hydrologic Unit Code: 03030003

Latitude: 35.80070

Longitude: -79.77623

Stream class: C

Agency: UCFRBA

NC stream index: 17-(10.5)

Time period: 01/07/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6.1	7.2	7.7	8.5	10	11.1	13.7
	85	0	<5	0	0		6.1	7.2	7.7	8.5	10	11.1	13.7
pH (SU)	85	0	<6	0	0		6.3	6.7	7	7.1	7.3	7.5	7.6
	85	0	>9	0	0		6.3	6.7	7	7.1	7.3	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				75	139	162	173	195	216	298
Water Temperature (°C)	85	0	>32	0	0		3.1	8	12.7	19.9	22.5	25.6	29.6
Other													
TSS (mg/L)	60	8	N/A				1	2.5	3	5	8.8	24.1	160
Turbidity (NTU)	60	0	>50	2	3.3		2.2	3.5	4.7	7	10.7	18.9	117
Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.02	0.02	0.04	0.07	0.13	0.24	0.4
NO2 + NO3 as N	60	0	N/A				0.03	0.11	0.19	0.32	0.44	0.54	0.77
TKN as N	60	1	N/A				0.2	0.35	0.5	0.65	0.78	0.95	1.44
Total Phosphorus	54	1	N/A				0.02	0.04	0.05	0.08	0.12	0.16	0.44
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	113.3	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HASKETT CRK AT ASHEBORO WWTP BRIDGE NR ASHEBORO

Station #: B4870000

Hydrologic Unit Code: 03030003

Latitude: 35.76490

Longitude: -79.78640

Stream class: C

Agency: UCFRBA

NC stream index: 17-12

Time period: 01/07/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5.9	6.5	7.3	8.5	9.9	11.4	14.9
	60	0	<5	0	0		5.9	6.5	7.3	8.5	9.9	11.4	14.9
pH (SU)	60	0	<6	1	1.7		5.3	6.3	6.6	6.9	7.1	7.3	8
	60	0	>9	0	0		5.3	6.3	6.6	6.9	7.1	7.3	8
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				54	72	92	111	128	136	278
Water Temperature (°C)	60	0	>32	0	0		1.8	5.7	9.2	16.9	23.3	26.9	28.6
Other													
TSS (mg/L)	60	11	N/A				1	2.5	3	5	6.8	15.9	243
Turbidity (NTU)	60	0	>50	3	5		2.8	4.4	6.2	12.8	21.8	37.6	148
Nutrients (mg/L)													
NH3 as N	60	42	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.13
NO2 + NO3 as N	60	4	N/A				0.02	0.02	0.06	0.14	0.22	0.32	0.54
TKN as N	60	5	N/A				0.2	0.21	0.35	0.51	0.63	0.77	3.19
Total Phosphorus	54	2	N/A				0.02	0.02	0.04	0.05	0.07	0.1	0.45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	231.2	15	25	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HASKETT CRK AT SR 2128 NR CENTRAL FALLS

Station #: B4890000

Hydrologic Unit Code: 03030003

Latitude: 35.76792

Longitude: -79.77898

Stream class: C

Agency: NCAMBNT

NC stream index: 17-12

Time period: 01/26/2009 to 12/02/2013

	# 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		6.5	6.8	7.2	8.3	10.2	11.2	11.9
	49	0	<5	0	0		6.5	6.8	7.2	8.3	10.2	11.2	11.9
pH (SU)	50	0	<6	0	0		6.6	7.3	7.4	7.6	7.8	7.9	8.2
	50	0	>9	0	0		6.6	7.3	7.4	7.6	7.8	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				228	423	582	826	1183	1356	1592
Water Temperature (°C)	51	0	>32	0	0		7.1	10.4	13.6	19.8	25.1	27	29.3
Other													
Hardness (mg/L)	13	0	N/A				40	46	62	90	190	234	250
TSS (mg/L)	19	9	N/A				6.2	6.2	6.2	9.2	13	128	330
Turbidity (NTU)	49	0	>50	3	6.1		1.3	1.8	2.5	3.9	16	26	160
Nutrients (mg/L)													
NH3 as N	51	1	N/A				0.02	0.02	0.03	0.05	0.07	1.49	4.3
NO2 + NO3 as N	51	0	N/A				0.85	4.06	8.1	13	18	21.8	29
TKN as N	51	0	N/A				0.79	0.94	1.1	1.2	1.4	2.86	8
Total Phosphorus	51	0	N/A				0.07	0.27	0.44	0.61	0.94	1.36	1.8
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
51	151.9	10	19.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 2261 OLD LIBERTY RD NR CENTRAL FALLS

Station #: B4920000

Hydrologic Unit Code: 03030003

Latitude: 35.76350

Longitude: -79.77213

Stream class: C

Agency: UCFRBA

NC stream index: 17-(10.5)

Time period: 01/07/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.4	6.4	7.2	8.4	9.9	11.1	13
	85	0	<5	0	0		5.4	6.4	7.2	8.4	9.9	11.1	13
pH (SU)	85	0	<6	0	0		6.1	6.7	6.9	7.1	7.3	8	8.8
	85	0	>9	0	0		6.1	6.7	6.9	7.1	7.3	8	8.8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				78	151	181	220	306	412	590
Water Temperature (°C)	85	0	>32	0	0		3.3	8.2	12.9	22.1	25.6	27.7	29.7
Other													
TSS (mg/L)	60	4	N/A				2.5	3	4	7.5	12	17	128
Turbidity (NTU)	60	0	>50	3	5		2.7	4.4	5.6	8.1	11.7	19.7	97.7
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.05	0.1	0.16	0.26
NO2 + NO3 as N	60	0	N/A				0.15	0.3	0.55	0.9	1.62	2.3	6.66
TKN as N	60	1	N/A				0.2	0.38	0.55	0.77	0.89	1.09	1.51
Total Phosphorus	54	1	N/A				0.02	0.06	0.08	0.11	0.16	0.29	0.5

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	122.3	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 2615 AT RAMSEUR

Station #: B5070000

Hydrologic Unit Code: 03030003

Latitude: 35.73022

Longitude: -79.65579

Stream class: C

Agency: UCFRBA

NC stream index: 17-(10.5)

Time period: 01/07/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.8	6.4	6.8	7.6	10	11.3	13.7
	85	0	<5	0	0		5.8	6.4	6.8	7.6	10	11.3	13.7
pH (SU)	85	0	<6	1	1.2		6	6.7	6.8	7.1	7.3	7.4	7.7
	85	0	>9	0	0		6	6.7	6.8	7.1	7.3	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				95	135	164	196	258	312	383
Water Temperature (°C)	85	0	>32	0	0		3.2	7.6	12.7	21.9	26.2	28.7	31.5
Other													
TSS (mg/L)	60	12	N/A				1	2.5	2.6	4	8	14.8	298
Turbidity (NTU)	60	0	>50	2	3.3		2.3	3.1	3.7	5.9	12.5	21.2	242
Nutrients (mg/L)													
NH3 as N	60	21	N/A				0.02	0.02	0.02	0.03	0.05	0.12	0.16
NO2 + NO3 as N	60	0	N/A				0.26	0.35	0.48	0.82	1.08	1.96	2.97
TKN as N	60	2	N/A				0.2	0.35	0.48	0.6	0.76	0.92	1.4
Total Phosphorus	54	0	N/A				0.02	0.07	0.08	0.09	0.12	0.16	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	84.8	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 2628 HINSHAW TOWN RD NR PARKS CROSSROADS

Station #: B5100000

Hydrologic Unit Code: 03030003

Latitude: 35.67248

Longitude: -79.62735

Stream class: C

Agency: UCFRBA

NC stream index: 17-(10.5)

Time period: 01/07/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.6	6	6.6	7.4	9.6	10.8	13.3
	85	0	<5	0	0		5.6	6	6.6	7.4	9.6	10.8	13.3
pH (SU)	85	0	<6	0	0		6	6.6	6.8	7.1	7.2	7.4	8.2
	85	0	>9	0	0		6	6.6	6.8	7.1	7.2	7.4	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				100	125	163	185	241	298	363
Water Temperature (°C)	85	0	>32	0	0		2.6	8.1	12.8	21.7	25.5	27.7	29.6
Other													
TSS (mg/L)	60	19	N/A				1	2	2.5	4	8.8	24.1	280
Turbidity (NTU)	60	0	>50	3	5		1.8	2.1	2.9	6.2	11.1	26.9	260
Nutrients (mg/L)													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.04	0.11	0.17
NO2 + NO3 as N	60	0	N/A				0.26	0.42	0.63	0.81	1.18	1.69	2.62
TKN as N	60	3	N/A				0.2	0.31	0.46	0.6	0.75	0.88	1.54
Total Phosphorus	54	1	N/A				0.02	0.05	0.07	0.09	0.11	0.15	0.63
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	122.3	5	8.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 1456 NR HIGH FALLS

Station #: B5190000

Hydrologic Unit Code: 03030003

Latitude: 35.50049

Longitude: -79.58135

Stream class: C

Agency: NCAMBNT

NC stream index: 17-(10.5)

Time period: 01/27/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	0	0		6.7	7.1	7.5	10.4	12.1	12.4	13.3
	21	0	<5	0	0		6.7	7.1	7.5	10.4	12.1	12.4	13.3
pH (SU)	22	0	<6	1	4.5		5.8	6.1	6.5	6.9	7.4	7.8	8.1
	22	0	>9	0	0		5.8	6.1	6.5	6.9	7.4	7.8	8.1
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				20	91	123	146	216	258	312
Water Temperature (°C)	22	0	>32	0	0		3.7	5	6.4	11.1	21.8	27.1	27.3
Other													
Hardness (mg/L)	13	0	N/A				16	17	22	31	42	49	50
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	6.2	14	87
Turbidity (NTU)	53	0	>50	3	5.7		1	1.8	2.9	5.3	10	26.2	450
Nutrients (mg/L)													
NH3 as N	52	30	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.14
NO2 + NO3 as N	52	2	N/A				0.02	0.07	0.22	0.55	0.72	0.95	1.4
TKN as N	52	0	N/A				0.27	0.39	0.47	0.55	0.68	0.81	2.3
Total Phosphorus	52	0	N/A				0.02	0.04	0.06	0.08	0.12	0.17	0.94
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	77	7	13.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: COTTON CRK AT SR 1372 AUMAN RD NR STAR

Station #: B5390800

Hydrologic Unit Code: 03030003

Latitude: 35.37820

Longitude: -79.75510

Stream class: WS-III

Agency: UCFRBA

NC stream index: 17-26-5-3

Time period: 01/07/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	4	4.7		2.3	4.7	5.5	6.4	7.9	10.3	13.6
pH (SU)	85	0	<5	15	17.6	97.9	2.3	4.7	5.5	6.4	7.9	10.3	13.6
	85	0	<6	5	5.9		5.6	6.2	6.5	6.7	6.9	7.1	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.6	6.2	6.5	6.7	6.9	7.1	7.5
	85	0	N/A				71	115	154	206	271	317	380
Water Temperature (°C)	85	0	>32	0	0		0.6	7.1	12.3	18.2	21.3	23.6	25.5
Other													
TSS (mg/L)	60	14	N/A				1	2.5	2.5	4	6.8	15	73
Turbidity (NTU)	60	0	>50	5	8.3		0.9	2.8	5.1	7.2	17.3	48	112
Nutrients (mg/L)													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.05	0.16	0.61
NO2 + NO3 as N	60	0	>10	2	3.3		0.19	0.64	1.3	2.39	4.02	6.66	12.7
TKN as N	60	1	N/A				0.2	0.45	0.58	0.85	1.14	1.63	3.42
Total Phosphorus	54	0	N/A				0.25	0.38	0.47	0.73	1.16	1.58	3.05
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	926.3	38	63.3	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BEAR CRK AT NC 705 AT ROBBINS

Station #: B5480000

Hydrologic Unit Code: 03030003

Latitude: 35.44073

Longitude: -79.58857

Stream class: C

Agency: NCAMBNT

NC stream index: 17-26-(6)

Time period: 01/27/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	22	0	<4	3	13.6	61.9	1.6	2.6	5.3	9.6	11.4	12.3	13.1
	22	0	<5	5	22.7	93.8	1.6	2.6	5.3	9.6	11.4	12.3	13.1
pH (SU)	23	0	<6	1	4.3		5.2	6.1	6.4	6.7	6.8	7.4	7.9
	23	0	>9	0	0		5.2	6.1	6.4	6.7	6.8	7.4	7.9
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				36	53	62	73	82	97	109
Water Temperature (°C)	23	0	>32	0	0		3.1	4.1	5.4	10.9	20.9	23.9	25.3
Other													
Hardness (mg/L)	13	0	N/A				18	18	20	22	24	26	26
TSS (mg/L)	18	15	N/A				6.2	6.2	6.2	6.2	12	12	12
Turbidity (NTU)	52	0	>50	1	1.9		1.6	3.3	4.1	5.4	9.6	17.1	170
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
52	79.6	9	17.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT NC 22 AT HIGH FALLS

Station #: B5520000

Hydrologic Unit Code: 03030003

Latitude: 35.47771

Longitude: -79.51951

Stream class: C HQW

Agency: UCFRBA

NC stream index: 17-(25.7)

Time period: 01/07/2009 to 04/16/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	16	0	<4	0	0		7.1	7.4	8.6	10.2	10.9	12.9	13.5
	16	0	<5	0	0		7.1	7.4	8.6	10.2	10.9	12.9	13.5
pH (SU)	16	0	<6	0	0		6.4	6.4	6.6	7	7.6	7.8	8
	16	0	>9	0	0		6.4	6.4	6.6	7	7.6	7.8	8
Spec. conductance (umhos/cm at 25°C)	16	0	N/A				81	87	108	120	156	241	264
Water Temperature (°C)	16	0	>32	0	0		2.1	3	8.9	13.8	23.4	28.1	28.8
Other													
TSS (mg/L)	16	1	N/A				1	1	1	3	9.8	42.3	57
Turbidity (NTU)	16	0	>50	2	12.5	51.4	1.1	1.2	2.2	9.1	20.2	62.7	67.1
Nutrients (mg/L)													
NH3 as N	16	5	N/A				0.02	0.02	0.02	0.03	0.03	0.08	0.08
NO2 + NO3 as N	16	0	N/A				0.36	0.37	0.49	0.59	0.76	1.11	1.41
TKN as N	16	2	N/A				0.2	0.2	0.33	0.47	0.84	1.2	1.52
Total Phosphorus	10	1	N/A				0.02	0.02	0.05	0.08	0.2	0.4	0.42
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
16	197.5	6	37.5	91.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT NC 42 AT CARBONTON

Station #: B5575000

Hydrologic Unit Code: 03030003

Latitude: 35.52004

Longitude: -79.34854

Stream class: WS-IV HQW

Agency: NCAMBNT

NC stream index: 17-(32.5)

Time period: 01/13/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		5.8	6.2	6.7	8.3	11.6	12.3	14.2
	32	0	<5	0	0		5.8	6.2	6.7	8.3	11.6	12.3	14.2
pH (SU)	32	0	<6	0	0		6.2	7	7.1	7.3	7.6	7.8	7.8
	32	0	>9	0	0		6.2	7	7.1	7.3	7.6	7.8	7.8
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				92	104	119	147	184	229	284
Water Temperature (°C)	32	0	>32	0	0		1.3	7	8.4	19.1	25.4	27.5	30.9
Other													
Chlorophyll a (ug/L)	32	14	>40	0	0		1	1	1	1	3	7	10
Hardness (mg/L)	14	0	>100	0	0		29	30	33	36	42	46	48
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	10.8	39.9	120
Turbidity (NTU)	32	0	>50	3	9.4		1.3	1.8	2.5	6.4	17.8	48.4	95
Nutrients (mg/L)													
NH3 as N	32	15	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.14
NO2 + NO3 as N	32	3	>10	0	0		0.02	0.02	0.19	0.54	0.69	0.79	0.84
TKN as N	32	0	N/A				0.35	0.4	0.43	0.5	0.61	0.77	1.1
Total Phosphorus	32	0	N/A				0.03	0.04	0.06	0.08	0.12	0.19	0.26
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	53.7	3	9.4										

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT DEEP RIVER PARK BRIDGE NR CUMNOCK

Station #: B5685000

Hydrologic Unit Code: 03030003

Latitude: 35.57046

Longitude: -79.24116

Stream class: C

Agency: UCFRBA

NC stream index: 17-(38.7)

Time period: 01/19/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.3	4.5	5.3	6	8.6	10.7	14
	85	0	<5	16	18.8	99	3.3	4.5	5.3	6	8.6	10.7	14
pH (SU)	85	0	<6	2	2.4		5.8	6.4	6.6	6.8	7	7.2	8.4
	85	0	>9	0	0		5.8	6.4	6.6	6.8	7	7.2	8.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				60	92	118	147	182	208	293
Water Temperature (°C)	85	0	>32	0	0		2.2	6.7	11.8	22.6	26.4	28.8	30.9
Other													
TSS (mg/L)	60	11	N/A				1	2.5	3	5	7.8	36.8	180
Turbidity (NTU)	60	0	>50	4	6.7		1.8	2.8	3.9	7.3	13.1	45.4	218
Nutrients (mg/L)													
NH3 as N	43	21	N/A				0.02	0.02	0.02	0.02	0.07	0.16	0.47
NO2 + NO3 as N	43	2	N/A				0.02	0.04	0.19	0.4	0.61	0.99	1.54
TKN as N	43	1	N/A				0.2	0.34	0.48	0.59	0.79	1.26	1.59
Total Phosphorus	44	1	N/A				0.02	0.04	0.07	0.09	0.14	0.21	0.82
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	75.4	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT US 15 AND 501 NR SANFORD

Station #: B5820000

Hydrologic Unit Code: 03030003

Latitude: 35.57817

Longitude: -79.19421

Stream class: C

Agency: UCFRBA

NC stream index: 17-(38.7)

Time period: 01/19/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	5	5.9		3	4.4	4.9	5.8	8.4	10.4	13.5
	85	0	<5	23	27.1	> 99.9	3	4.4	4.9	5.8	8.4	10.4	13.5
pH (SU)	85	0	<6	2	2.4		5.6	6.4	6.6	6.8	7	7.1	7.6
	85	0	>9	0	0		5.6	6.4	6.6	6.8	7	7.1	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				61	95	130	170	228	262	342
Water Temperature (°C)	85	0	>32	0	0		1.9	6.5	12	22.5	26.6	28.9	31.1
Other													
TSS (mg/L)	60	5	N/A				1	2.5	4	5	9.8	44.9	234
Turbidity (NTU)	60	0	>50	4	6.7		2	4.2	5.4	9.6	14.8	46.5	262
Nutrients (mg/L)													
NH3 as N	60	22	N/A				0.02	0.02	0.02	0.03	0.06	0.16	0.29
NO2 + NO3 as N	60	0	N/A				0.31	0.59	0.75	0.96	1.52	2.04	3.02
TKN as N	60	3	N/A				0.2	0.34	0.52	0.68	0.81	1.21	1.63
Total Phosphorus	55	0	N/A				0.06	0.12	0.14	0.23	0.41	0.65	1.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	90	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOVES CRK AT WASTE TREATMENT PLANT RD AT SILER CITY
Station #: B5890000 **Hydrologic Unit Code:** 03030003
Latitude: 35.72978 **Longitude:** -79.42892 **Stream class:** C
Agency: UCFRBA **NC stream index:** 17-43-10

Time period: 04/23/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	82	0	<4	9	11	56.2	1.9	3.9	5.7	6.7	9.1	10.9	12.3
	82	0	<5	14	17.1	96.7	1.9	3.9	5.7	6.7	9.1	10.9	12.3
pH (SU)	82	0	<6	1	1.2		6	6.3	6.6	6.9	7.1	7.2	7.6
	82	0	>9	0	0		6	6.3	6.6	6.9	7.1	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	82	0	N/A				88	119	153	172	195	248	1056
Water Temperature (°C)	82	0	>32	0	0		1.6	6.3	12	18.9	22.5	24.5	28
Other													
TSS (mg/L)	57	18	N/A				1	2	2.5	3	5.5	17.6	233
Turbidity (NTU)	57	0	>50	2	3.5		1.4	1.9	3.4	6.4	12.5	36.7	236
Nutrients (mg/L)													
NH3 as N	57	30	N/A				0.02	0.02	0.02	0.02	0.05	0.35	1.8
NO2 + NO3 as N	57	1	N/A				0.02	0.07	0.27	0.54	0.68	1.23	5.27
TKN as N	57	8	N/A				0.2	0.2	0.31	0.46	0.69	1.2	1.92
Total Phosphorus	52	2	N/A				0.02	0.03	0.04	0.06	0.09	0.2	0.55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	156.5	12	21.1	52.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOVES CRK AT PROGRESS BLVD AT SILER CITY

Station #: B5920000

Hydrologic Unit Code: 03030003

Latitude: 35.73219

Longitude: -79.42463

Stream class: C

Agency: UCFRBA

NC stream index: 17-43-10

Time period: 04/23/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	82	0	<4	1	1.2		2.6	6.8	7.1	7.6	9.4	11.3	12.4
	82	0	<5	1	1.2		2.6	6.8	7.1	7.6	9.4	11.3	12.4
pH (SU)	82	0	<6	0	0		6.5	7	7.3	7.5	7.7	7.8	8.1
	82	0	>9	0	0		6.5	7	7.3	7.5	7.7	7.8	8.1
Spec. conductance (umhos/cm at 25°C)	82	0	N/A				167	337	517	700	888	1055	1156
Water Temperature (°C)	82	0	>32	0	0		6.6	9.4	16.4	21.9	25.8	27.8	30.1
Other													
TSS (mg/L)	57	19	N/A				1	2	2.5	3	5	10.6	213
Turbidity (NTU)	57	1	>50	1	1.8		0.4	0.7	1.1	2.7	7.5	20.7	245
Nutrients (mg/L)													
NH3 as N	57	26	N/A				0.02	0.02	0.02	0.03	0.07	0.25	1.75
NO2 + NO3 as N	57	0	N/A				0.42	2.12	7.61	12.8	19.65	29.78	36.4
TKN as N	57	29	N/A				0.2	0.2	0.2	0.2	0.69	1.25	9.66
Total Phosphorus	52	1	N/A				0.02	0.03	0.04	0.06	0.12	0.19	0.58
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	122.7	11	19.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKY RIV AT US 64 NR SILER CITY

Station #: B5950000

Hydrologic Unit Code: 03030003

Latitude: 35.73513

Longitude: -79.42325

Stream class: WS-III CA

Agency: UCFRBA

NC stream index: 17-43-(8)

Time period: 01/19/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	28	32.9	> 99.9	1.6	2.7	3.5	5.2	8.6	11	12.5
	85	0	<5	36	42.4	> 99.9	1.6	2.7	3.5	5.2	8.6	11	12.5
pH (SU)	85	0	<6	4	4.7		5.8	6.1	6.4	6.7	6.9	7	7.3
	85	0	>9	0	0		5.8	6.1	6.4	6.7	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				64	83	89	96	106	116	151
Water Temperature (°C)	85	0	>32	0	0		3.9	6.2	11.2	21.2	25.6	27.7	29.2
Other													
TSS (mg/L)	60	12	N/A				1	2.5	2.5	5	8	11	32
Turbidity (NTU)	60	0	>50	0	0		1.3	2.5	3.6	5.7	10.3	19.8	49.1
Nutrients (mg/L)													
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.05	0.11	0.2	0.67
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.06	0.11	0.2	0.4	0.55	1.05
TKN as N	60	3	N/A				0.2	0.5	0.68	0.92	1.12	1.31	1.53
Total Phosphorus	55	0	N/A				0.02	0.04	0.06	0.09	0.11	0.16	0.47
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	57.6	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKY RIV AT SR 2170 RIVES CHAPEL RD NR SILER CITY

Station #: B5980000

Hydrologic Unit Code: 03030003

Latitude: 35.69848

Longitude: -79.37559

Stream class: WS-III CA

Agency: UCFRBA

NC stream index: 17-43-(8)

Time period: 01/19/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		2.5	4.8	5.5	6.5	8.8	10.4	12.4
	85	0	<5	14	16.5	95.7	2.5	4.8	5.5	6.5	8.8	10.4	12.4
pH (SU)	85	0	<6	0	0		6	6.6	6.8	6.9	7.1	7.4	7.8
	85	0	>9	0	0		6	6.6	6.8	6.9	7.1	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				79	125	166	280	420	572	881
Water Temperature (°C)	85	0	>32	0	0		2.4	6.2	11.6	20.4	24.5	26.9	29.1
Other													
TSS (mg/L)	60	13	N/A				1	2	2.5	4	7	13.8	16
Turbidity (NTU)	60	0	>50	0	0		1.5	2.2	3.1	6.3	10.9	17.8	27.4
Nutrients (mg/L)													
NH3 as N	60	22	N/A				0.02	0.02	0.02	0.04	0.06	0.1	0.16
NO2 + NO3 as N	60	0	>10	4	6.7		0.1	0.88	1.22	2.72	5.41	9.45	25
TKN as N	60	6	N/A				0.2	0.22	0.62	0.8	1.03	1.16	1.51
Total Phosphorus	55	1	N/A				0.02	0.04	0.06	0.08	0.1	0.14	0.47
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	143.1	7	11.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKY RIV AT NC 902 NR PITTSBORO

Station #: B6000000

Hydrologic Unit Code: 03030003

Latitude: 35.67865

Longitude: -79.28983

Stream class: WS-III CA

Agency: NCAMBNT

NC stream index: 17-43-(8)

Time period: 01/13/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		6.6	7	7.4	9.3	11.5	12.7	14.9
	32	0	<5	0	0		6.6	7	7.4	9.3	11.5	12.7	14.9
pH (SU)	32	0	<6	0	0		7.1	7.2	7.4	7.6	7.8	8.2	8.5
	32	0	>9	0	0		7.1	7.2	7.4	7.6	7.8	8.2	8.5
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				97	100	126	167	310	485	518
Water Temperature (°C)	32	0	>32	0	0		0.9	6.3	8.7	17.6	24	25.6	28.8
Other													
Hardness (mg/L)	14	0	>100	1	7.1		33	34	37	60	86	110	121
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	8	17.4	20
Turbidity (NTU)	32	0	>50	1	3.1		1.2	1.4	2.2	8.7	15.8	26.4	55
Nutrients (mg/L)													
NH3 as N	32	23	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.06
NO2 + NO3 as N	32	0	>10	0	0		0.35	0.61	0.7	1.45	2.57	5	7.6
TKN as N	32	0	N/A				0.34	0.54	0.59	0.69	0.81	0.98	1.2
Total Phosphorus	32	1	N/A				0.02	0.02	0.04	0.07	0.12	0.18	0.32
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	66	4	12.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 1011 OLD US 1 NR MONCURE

Station #: B6040300

Hydrologic Unit Code: 03030003

Latitude: 35.61759

Longitude: -79.09119

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 17-(43.5)

Time period: 01/13/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		5.2	5.7	6.6	9	10.8	12.6	13.5
	32	0	<5	0	0		5.2	5.7	6.6	9	10.8	12.6	13.5
pH (SU)	32	0	<6	0	0		6.4	6.9	7.1	7.3	7.5	8	9
	32	0	>9	0	0		6.4	6.9	7.1	7.3	7.5	8	9
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				89	101	126	147	200	252	332
Water Temperature (°C)	32	0	>32	0	0		2.1	6.8	8.7	19.1	25.6	27.1	29.3
Other													
Hardness (mg/L)	14	0	>100	0	0		28	29	35	38	44	56	57
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	9.5	12	27.7	78
Turbidity (NTU)	32	0	>50	2	6.2		1.5	3.4	5	11	17.8	33.2	95
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
32	58.9		3	9.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP RIV AT SR 1011 OLD US 1 NR MONCURE

Station #: B6040300

Hydrologic Unit Code: 03030003

Latitude: 35.61759

Longitude: -79.09119

Stream class: WS-IV

Agency: UCFRBA

NC stream index: 17-(43.5)

Time period: 01/19/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5.5	6.2	6.9	8.3	10.5	11.6	13.4
	60	0	<5	0	0		5.5	6.2	6.9	8.3	10.5	11.6	13.4
pH (SU)	60	0	<6	0	0		6.1	6.6	6.8	7	7.3	7.5	8.5
	60	0	>9	0	0		6.1	6.6	6.8	7	7.3	7.5	8.5
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				65	94	128	167	202	254	327
Water Temperature (°C)	60	0	>32	0	0		2.9	6.7	10.8	17.2	25.7	28.9	30.1
Other													
TSS (mg/L)	60	8	N/A				1	2.5	4	6	8	15.8	204
Turbidity (NTU)	60	0	>50	3	5		1.8	3.1	4.6	8.1	12.7	20.2	166
Nutrients (mg/L)													
NH3 as N	60	32	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.23
NO2 + NO3 as N	60	0	>10	0	0		0.04	0.39	0.62	0.81	1.05	1.35	1.83
TKN as N	60	3	N/A				0.2	0.3	0.47	0.62	0.86	1.22	1.88
Total Phosphorus	55	1	N/A				0.02	0.11	0.15	0.21	0.35	0.46	0.55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	67.8	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LICK CRK AT SR 1500 NR CORINTH

Station #: B6130500

Hydrologic Unit Code: 03030004

Latitude: 35.55947

Longitude: -79.05437

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-4-(2)

Time period: 01/05/2009 to 10/14/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	29	51.8	> 99.9	0	0.9	2	3.6	8.9	10.1	11.4
	56	0	<5	34	60.7	> 99.9	0	0.9	2	3.6	8.9	10.1	11.4
pH (SU)	56	0	<6	10	17.9	95	5.1	5.8	6	6.3	6.6	6.8	7
	56	0	>9	0	0		5.1	5.8	6	6.3	6.6	6.8	7
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				56	68	78	85	93	103	109
Water Temperature (°C)	56	0	>32	0	0		2	7	10.2	14.9	21.1	23.9	26.8
Other													
TSS (mg/L)	56	5	N/A				1	2.5	4	6	10	21.3	68
Turbidity (NTU)	56	0	>50	2	3.6		4.1	6	9.2	11.1	16.9	32.2	132
Nutrients (mg/L)													
NH3 as N	56	21	N/A				0.01	0.02	0.02	0.03	0.09	0.23	0.34
NO2 + NO3 as N	57	13	>10	0	0		0.02	0.02	0.02	0.06	0.18	0.24	0.92
TKN as N	56	1	N/A				0.2	0.28	0.41	0.69	0.91	1.25	1.88
Total Phosphorus	51	1	N/A				0.02	0.03	0.06	0.08	0.14	0.23	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	85.9	10	17.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT NC 42 NR CORINTH

Station #: B6160000

Hydrologic Unit Code: 03030004

Latitude: 35.54905

Longitude: -79.02460

Stream class: WS-IV CA

Agency: MCFRBA

NC stream index: 18-(4.5)

Time period: 01/05/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.6	6	7.1	8.5	10.4	11.2	12.4
	85	0	<5	1	1.2		3.6	6	7.1	8.5	10.4	11.2	12.4
pH (SU)	85	0	<6	1	1.2		5.8	6.5	6.7	7.2	7.4	8.4	9
	85	0	>9	1	1.2		5.8	6.5	6.7	7.2	7.4	8.4	9
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				67	120	145	169	199	227	263
Water Temperature (°C)	85	0	>32	3	3.5		7	9.2	13.6	24.2	28.7	30.2	32.8
Other													
Chlorophyll a (ug/L)	32	0	>40	2	6.2		3	4	7	18	32	39	73
TSS (mg/L)	60	2	N/A				2	4	6	8	11	19.8	225
Turbidity (NTU)	60	0	>50	4	6.7		2.2	5.1	6	8.2	11.8	21.3	228
Nutrients (mg/L)													
NH3 as N	60	17	N/A				0.02	0.02	0.02	0.05	0.09	0.15	0.58
NO2 + NO3 as N	59	0	>10	0	0		0.07	0.18	0.45	0.6	0.74	0.96	1.18
TKN as N	60	1	N/A				0.2	0.48	0.69	0.81	1.02	1.26	1.59
Total Phosphorus	55	0	N/A				0.04	0.06	0.08	0.1	0.13	0.19	0.76
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	42.2	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BUCKHORN CRK BESIDE SR 1921 NR CORINTH

Station #: B6204000

Hydrologic Unit Code: 03030004

Latitude: 35.54353

Longitude: -78.98986

Stream class: C

Agency: MCFRBA

NC stream index: 18-7-(11)

Time period: 01/05/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	20	33.3	> 99.9	0.9	2.1	2.8	5.6	8.7	11	12.6
	60	0	<5	26	43.3	> 99.9	0.9	2.1	2.8	5.6	8.7	11	12.6
pH (SU)	60	0	<6	1	1.7		5.8	6.2	6.3	6.7	6.8	6.9	7.3
	60	0	>9	0	0		5.8	6.2	6.3	6.7	6.8	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				62	85	100	126	142	171	208
Water Temperature (°C)	60	0	>32	0	0		1	6.2	10.3	15.4	22.2	25.4	27.1
Other													
TSS (mg/L)	60	30	N/A				1	2	2.5	2.5	3	7	19
Turbidity (NTU)	60	0	>50	0	0		1.5	2.1	2.8	4	5.8	9.3	16.7
Nutrients (mg/L)													
NH3 as N	60	27	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.23
NO2 + NO3 as N	60	23	N/A				0.02	0.02	0.02	0.03	0.07	0.18	0.26
TKN as N	60	11	N/A				0.2	0.2	0.32	0.5	0.71	0.91	1.15
Total Phosphorus	55	3	N/A				0.02	0.03	0.04	0.05	0.08	0.13	0.52
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	33.1	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT CAPTAINS LANDING SUBDIVISION NR COKESBURY

Station #: B6215000

Hydrologic Unit Code: 03030004

Latitude: 35.48710

Longitude: -78.95160

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-(10.5)

Time period: 07/19/2010 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	1	1.7		2.4	5.4	6	6.8	8.7	10.4	12.2
	60	0	<5	5	8.3		2.4	5.4	6	6.8	8.7	10.4	12.2
pH (SU)	60	0	<6	0	0		6.3	6.7	6.9	7	7.2	7.5	7.8
	60	0	>9	0	0		6.3	6.7	6.9	7	7.2	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				56	130	148	171	197	224	349
Water Temperature (°C)	60	0	>32	1	1.7		6.4	9.7	12.7	23.3	27	29	32.1
Other													
TSS (mg/L)	42	10	N/A				2.5	2.5	2.9	5	9.2	11.7	109
Turbidity (NTU)	42	0	>50	1	2.4		2.1	3.2	4	5.9	12.7	15.9	70.8
Nutrients (mg/L)													
NH3 as N	42	16	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.17
NO2 + NO3 as N	42	0	>10	0	0		0.18	0.32	0.48	0.63	0.73	0.86	1.05
TKN as N	42	0	N/A				0.21	0.4	0.56	0.69	0.87	1.07	1.29
Total Phosphorus	42	0	N/A				0.02	0.05	0.06	0.08	0.11	0.14	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
42	79.5	5	11.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: AVENTS CRK AT SR 1418 NR COKESBURY

Station #: B6230000

Hydrologic Unit Code: 03030004

Latitude: 35.48772

Longitude: -78.90987

Stream class: WS-IV HQW

Agency: MCFRBA

NC stream index: 18-13-(2)

Time period: 01/05/2009 to 10/14/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	2	3.6		1.6	6.2	6.8	7.8	10.3	11.6	13.9
	56	0	<5	3	5.4		1.6	6.2	6.8	7.8	10.3	11.6	13.9
pH (SU)	56	0	<6	7	12.5	67.3	5.7	6	6.2	6.5	6.8	6.9	7.7
	56	0	>9	0	0		5.7	6	6.2	6.5	6.8	6.9	7.7
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				51	58	60	64	69	75	81
Water Temperature (°C)	56	0	>32	0	0		1.6	6.1	9.7	14.4	21.2	24.1	27.2
Other													
TSS (mg/L)	56	18	N/A				1	2	2.5	2.8	5.8	8	48
Turbidity (NTU)	56	0	>50	1	1.8		2.6	3.3	4.5	5.5	7.6	11.2	57.2
Nutrients (mg/L)													
NH3 as N	56	40	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.09
NO2 + NO3 as N	56	7	>10	0	0		0.02	0.02	0.08	0.24	0.41	0.58	0.94
TKN as N	56	12	N/A				0.2	0.2	0.26	0.49	0.68	0.94	1.7
Total Phosphorus	51	8	N/A				0.02	0.02	0.03	0.03	0.05	0.1	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	133.1	6	10.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEILLS CRK AT US 401 NR LILLINGTON

Station #: B6252000

Hydrologic Unit Code: 03030004

Latitude: 35.42810

Longitude: -78.82400

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-16-(0.7)

Time period: 01/05/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	4	6.7		1.3	4.7	6.3	7.2	9.3	11	13.1
	60	0	<5	6	10		1.3	4.7	6.3	7.2	9.3	11	13.1
pH (SU)	60	0	<6	4	6.7		5.4	6.1	6.3	6.6	6.8	7	7.3
	60	0	>9	0	0		5.4	6.1	6.3	6.6	6.8	7	7.3
Spec. conductance (umhos/cm at 25°C)	59	1	N/A				47	62	72	81	88	97	127
Water Temperature (°C)	60	0	>32	0	0		1.7	6.7	10.5	15.2	22.5	24.5	28
Other													
TSS (mg/L)	60	22	N/A				2	2.5	2.5	3	6	9.9	56
Turbidity (NTU)	60	0	>50	1	1.7		2.9	4.3	5.3	6.7	8.7	14.9	83.9
Nutrients (mg/L)													
NH3 as N	60	44	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.29
NO2 + NO3 as N	60	4	>10	0	0		0.02	0.02	0.08	0.2	0.36	0.46	0.82
TKN as N	60	4	N/A				0.2	0.23	0.33	0.53	0.73	0.88	1.39
Total Phosphorus	55	2	N/A				0.02	0.03	0.05	0.07	0.09	0.16	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	103.2	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: KENNETH CRK AT SR 1441 CHALYBEATE SPRINGS RD NR ANGIER

Station #: B6320000

Hydrologic Unit Code: 03030004

Latitude: 35.51435

Longitude: -78.78622

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-16-1-(2)

Time period: 01/05/2009 to 10/14/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	9	16.1	89.7	2.1	3.2	4.8	6.6	9.6	11.4	13.1
	56	0	<5	15	26.8	> 99.9	2.1	3.2	4.8	6.6	9.6	11.4	13.1
pH (SU)	56	0	<6	10	17.9	95	5.4	5.7	6.1	6.4	6.6	6.8	6.8
	56	0	>9	0	0		5.4	5.7	6.1	6.4	6.6	6.8	6.8
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				56	69	82	91	101	109	121
Water Temperature (°C)	56	0	>32	0	0		2.2	6.6	10.4	15.4	21.6	24.2	26.8
Other													
TSS (mg/L)	56	20	N/A				1	2	2.5	3	5.8	10.6	113
Turbidity (NTU)	56	0	>50	1	1.8		3.1	3.8	4.8	6.2	8.6	13.9	151
Nutrients (mg/L)													
NH3 as N	56	25	N/A				0.02	0.02	0.02	0.02	0.04	0.11	0.42
NO2 + NO3 as N	56	0	>10	0	0		0.04	0.07	0.19	0.36	0.5	0.6	0.93
TKN as N	56	4	N/A				0.14	0.21	0.36	0.55	0.72	0.91	1.97
Total Phosphorus	51	1	N/A				0.02	0.03	0.04	0.06	0.07	0.17	0.58
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	157.6	5	8.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT US 401 AT LILLINGTON

Station #: B6370000

Hydrologic Unit Code: 03030004

Latitude: 35.40653

Longitude: -78.81350

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-(16.7)

Time period: 01/05/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.3	5.8	6.5	7.3	9.2	10.5	11.4
	85	0	<5	0	0		5.3	5.8	6.5	7.3	9.2	10.5	11.4
pH (SU)	85	0	<6	2	2.4		5.9	6.4	6.8	6.9	7.1	7.3	7.6
	85	0	>9	0	0		5.9	6.4	6.8	6.9	7.1	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				76	114	139	162	192	220	258
Water Temperature (°C)	85	0	>32	0	0		4.6	9.3	12.2	23.7	27.8	30	31.6
Other													
TSS (mg/L)	60	13	N/A				1	2.5	4	8	13	22	70
Turbidity (NTU)	60	0	>50	3	5		1.9	3.3	5.2	8.7	12.7	21.6	70.2
Nutrients (mg/L)													
NH3 as N	60	21	N/A				0.02	0.02	0.02	0.03	0.05	0.09	0.21
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.25	0.42	0.58	0.74	0.86	1.15
TKN as N	60	3	N/A				0.2	0.35	0.51	0.69	0.88	1.01	1.45
Total Phosphorus	55	0	N/A				0.03	0.06	0.06	0.08	0.11	0.16	0.54
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	79.9	7	11.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT US 401 AT LILLINGTON

Station #: B6370000

Hydrologic Unit Code: 03030004

Latitude: 35.40653

Longitude: -78.81350

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 18-(16.7)

Time period: 01/22/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	24	0	<4	0	0		4.7	5.5	6.9	9.7	11.7	12.2	12.3
	24	0	<5	1	4.2		4.7	5.5	6.9	9.7	11.7	12.2	12.3
pH (SU)	24	0	<6	2	8.3		5.4	6.2	6.6	6.8	7.1	7.7	7.8
	24	0	>9	0	0		5.4	6.2	6.6	6.8	7.1	7.7	7.8
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				94	116	122	142	187	226	242
Water Temperature (°C)	24	0	>32	0	0		5	6.5	8.8	14.6	21.1	27.8	28.3
Other													
Hardness (mg/L)	13	0	>100	0	0		30	30	32	35	40	48	54
TSS (mg/L)	19	5	N/A				6.2	6.2	10	12	25	44	322
Turbidity (NTU)	55	0	>50	3	5.5		1.6	6.4	7.5	13	18	47	130
Nutrients (mg/L)													
NH3 as N	55	14	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.25
NO2 + NO3 as N	55	0	>10	0	0		0.13	0.22	0.42	0.56	0.71	0.89	1.3
TKN as N	55	0	N/A				0.41	0.48	0.54	0.65	0.76	0.94	4
Total Phosphorus	55	0	N/A				0.06	0.07	0.08	0.1	0.14	0.24	1.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	61.9	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BUIES CRK AT KEITH HILLS GOLF COURSE MAINT SHOP AT BUIES CREEK

Station #: B6485000

Hydrologic Unit Code: 03030004

Latitude: 35.39070

Longitude: -78.75270

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-18

Time period: 01/05/2009 to 10/14/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	14	25	99.9	1	2	3.7	6	9.1	11.1	12.7
	56	0	<5	21	37.5	> 99.9	1	2	3.7	6	9.1	11.1	12.7
pH (SU)	56	0	<6	12	21.4	99.1	5.3	5.7	6	6.4	6.6	6.7	6.8
	56	0	>9	0	0		5.3	5.7	6	6.4	6.6	6.7	6.8
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				58	70	78	90	114	158	202
Water Temperature (°C)	56	0	>32	0	0		1.8	7.2	10.7	16.2	22.9	27.2	29.7
Other													
TSS (mg/L)	56	20	N/A				1	2	2.5	3	6	8.3	61
Turbidity (NTU)	56	0	>50	0	0		2.5	2.9	3.4	4.6	6.6	9.3	30.2
Nutrients (mg/L)													
NH3 as N	56	26	N/A				0.02	0.02	0.02	0.02	0.06	0.09	0.32
NO2 + NO3 as N	56	4	>10	0	0		0.02	0.03	0.06	0.11	0.18	0.3	0.64
TKN as N	56	2	N/A				0.2	0.34	0.51	0.69	0.96	1.17	1.76
Total Phosphorus	51	3	N/A				0.02	0.03	0.04	0.06	0.08	0.15	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	156.3	10	17.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: UPPER LITTLE RIV AT SR 1222 NR BROADWAY

Station #: B6820050

Hydrologic Unit Code: 03030004

Latitude: 35.40674

Longitude: -79.06280

Stream class: C

Agency: MCFRBA

NC stream index: 18-20-(8)

Time period: 01/08/2009 to 12/20/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	5	8.3		2.5	4.1	5.2	7.2	9.1	10.5	12.3
	60	0	<5	13	21.7	99.4	2.5	4.1	5.2	7.2	9.1	10.5	12.3
pH (SU)	60	0	<6	9	15	85.8	5.4	6	6.3	6.6	6.8	7	7.3
	60	0	>9	0	0		5.4	6	6.3	6.6	6.8	7	7.3
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				49	63	72	95	124	189	294
Water Temperature (°C)	60	0	>32	0	0		2.6	5.8	9.2	16.9	23.4	26.1	27.9
Other													
TSS (mg/L)	60	16	N/A				1	2.1	2.5	4	8	11.9	22
Turbidity (NTU)	60	0	>50	0	0		2	2.9	4.5	5.5	8.3	13.4	33.2
Nutrients (mg/L)													
NH3 as N	60	27	N/A				0.02	0.02	0.02	0.02	0.06	0.08	0.2
NO2 + NO3 as N	60	3	N/A				0.02	0.04	0.13	0.27	0.57	1.15	4.15
TKN as N	60	2	N/A				0.2	0.32	0.46	0.65	0.86	0.99	3.67
Total Phosphorus	55	2	N/A				0.02	0.04	0.08	0.17	0.29	0.4	0.54
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	76	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: UPPER LITTLE RIV AT SR 2021 NR LILLINGTON

Station #: B6830000

Hydrologic Unit Code: 03030004

Latitude: 35.32656

Longitude: -78.72378

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-20-(24.5)

Time period: 01/08/2009 to 12/20/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	4	6.7		2	4.6	6.5	7.3	9.2	10.5	12.3
pH (SU)	60	0	<5	6	10		2	4.6	6.5	7.3	9.2	10.5	12.3
	60	0	<6	27	45	> 99.9	4.6	5.4	5.8	6.1	6.3	6.6	7
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		4.6	5.4	5.8	6.1	6.3	6.6	7
	60	2	N/A				47	55	68	83	104	152	417
Water Temperature (°C)	60	0	>32	0	0		1.7	6	9.4	16.4	23.7	25.3	27.4
Other													
TSS (mg/L)	60	26	N/A				1	1.1	2.5	2.5	4	7.9	25
Turbidity (NTU)	60	0	>50	0	0		0.6	1.5	2.3	4.2	7.2	10.4	13.8
Nutrients (mg/L)													
NH3 as N	60	47	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.07
NO2 + NO3 as N	60	1	>10	0	0		0.03	0.07	0.12	0.23	0.33	0.55	0.79
TKN as N	60	4	N/A				0.2	0.23	0.37	0.52	0.69	0.94	1.27
Total Phosphorus	55	16	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.45

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	98.7	4	6.7

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: UPPER LITTLE RIV AT SR 2021 NR LILLINGTON

Station #: B6830000

Hydrologic Unit Code: 03030004

Latitude: 35.32656

Longitude: -78.72378

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 18-20-(24.5)

Time period: 01/22/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	24	0	<4	2	8.3		2.1	3.2	6	9	11.1	12.5	13.1
	24	0	<5	3	12.5	56.4	2.1	3.2	6	9	11.1	12.5	13.1
pH (SU)	24	0	<6	3	12.5	56.4	4.8	5.7	6.3	6.8	7	7.3	7.5
	24	0	>9	0	0		4.8	5.7	6.3	6.8	7	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				51	52	59	74	88	100	111
Water Temperature (°C)	24	0	>32	0	0		2.3	4.6	8.6	15.7	19.4	24.2	25
Other													
Hardness (mg/L)	14	0	>100	0	0		18	18	21	27	36	63	70
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	8.6	12	13
Turbidity (NTU)	58	1	>50	0	0		1	1.3	2.4	4.2	6.8	11.1	45
Nutrients (mg/L)													
NH3 as N	57	37	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.14
NO2 + NO3 as N	57	1	>10	0	0		0.02	0.1	0.15	0.25	0.34	0.47	0.66
TKN as N	57	0	N/A				0.22	0.3	0.38	0.44	0.51	0.69	1.2
Total Phosphorus	57	2	N/A				0.02	0.02	0.02	0.04	0.04	0.06	0.26
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	73.1	4	6.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT NC 217 AT ERWIN

Station #: B6840000

Hydrologic Unit Code: 03030004

Latitude: 35.31224

Longitude: -78.69250

Stream class: WS-V

Agency: MCFRBA

NC stream index: 18-(20.7)

Time period: 01/08/2009 to 12/20/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6.2	6.5	7	7.5	9.8	11.1	13.4
	85	0	<5	0	0		6.2	6.5	7	7.5	9.8	11.1	13.4
pH (SU)	85	0	<6	2	2.4		5.9	6.4	6.7	7.1	7.4	7.6	8.2
	85	0	>9	0	0		5.9	6.4	6.7	7.1	7.4	7.6	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				77	93	132	155	188	209	224
Water Temperature (°C)	85	0	>32	0	0		3.2	8.7	13.2	24.3	28.1	29.9	31.8
Other													
TSS (mg/L)	60	9	N/A				2	2.5	4	7	22.5	46	181
Turbidity (NTU)	60	0	>50	5	8.3		1.3	2.8	4.5	6.8	21.8	45.1	108
Nutrients (mg/L)													
NH3 as N	60	35	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.16
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.29	0.45	0.59	0.71	0.83	1.12
TKN as N	60	2	N/A				0.2	0.32	0.47	0.67	0.94	1.16	1.69
Total Phosphorus	55	1	N/A				0.02	0.06	0.07	0.09	0.12	0.28	0.62
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	69.1	7	11.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOWER LITTLE RIV AT SR 2023 NR LOBELIA

Station #: B7245000

Hydrologic Unit Code: 03030004

Latitude: 35.20371

Longitude: -79.21592

Stream class: WS-III HQW

Agency: NCAMBNT

NC stream index: 18-23-(10.7)

Time period: 01/27/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	22	0	<4	1	4.5		2.9	4.8	7.1	9.2	11	11.9	12.3
	22	0	<5	2	9.1		2.9	4.8	7.1	9.2	11	11.9	12.3
pH (SU)	23	0	<6	4	17.4	80.7	4.5	5.3	6.1	6.4	6.7	7.4	7.6
	23	0	>9	0	0		4.5	5.3	6.1	6.4	6.7	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				28	35	40	41	44	52	74
Water Temperature (°C)	23	0	>32	0	0		4.2	4.6	7.2	12.6	22.2	24.1	24.6
Other													
Hardness (mg/L)	13	0	>100	0	0		9	9	9	10	12	12	12
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	13.3	17
Turbidity (NTU)	55	2	>50	0	0		1	1.4	2.1	3.6	5.5	7.7	13
Nutrients (mg/L)													
NH3 as N	55	31	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.06
NO2 + NO3 as N	55	0	>10	0	0		0.03	0.05	0.06	0.1	0.16	0.23	0.35
TKN as N	55	1	N/A				0.2	0.29	0.35	0.42	0.5	0.62	0.76
Total Phosphorus	55	15	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.07
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	87	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOWER LITTLE RIV AT SR 1451 AT MANCHESTER

Station #: B7280000

Hydrologic Unit Code: 03030004

Latitude: 35.19323

Longitude: -78.98561

Stream class: C

Agency: NCAMBNT

NC stream index: 18-23-(24)

Time period: 01/22/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	24	0	<4	0	0		5.8	6.6	7.8	9.7	11.7	12.7	13.7
	24	0	<5	0	0		5.8	6.6	7.8	9.7	11.7	12.7	13.7
pH (SU)	24	0	<6	7	29.2	99.3	4.6	5.1	5.7	6.4	6.7	7.2	7.5
	24	0	>9	0	0		4.6	5.1	5.7	6.4	6.7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				31	31	37	46	54	61	68
Water Temperature (°C)	24	0	>32	0	0		2.8	4.6	9.2	15.1	20.1	24.4	25.5
Other													
Hardness (mg/L)	13	0	N/A				8	8	10	11	14	15	15
TSS (mg/L)	19	18	N/A				6.2	6.2	6.2	6.2	12	12	16
Turbidity (NTU)	57	0	>50	0	0		1.4	2.8	3.3	4.1	5.8	7.8	23
Nutrients (mg/L)													
NH3 as N	57	29	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.08
NO2 + NO3 as N	57	0	N/A				0.05	0.1	0.3	0.56	1.05	1.22	2.3
TKN as N	57	0	N/A				0.2	0.3	0.35	0.4	0.48	0.57	0.77
Total Phosphorus	57	1	N/A				0.02	0.02	0.03	0.07	0.16	0.21	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	93.1	2	3.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOWER LITTLE RIV AT NC 210 NR SPRING LAKE

Station #: B7300000

Hydrologic Unit Code: 03030004

Latitude: 35.20205

Longitude: -78.95300

Stream class: C

Agency: MCFRBA

NC stream index: 18-23-(24)

Time period: 01/08/2009 to 12/20/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.2	6.8	7.2	8.4	10.3	11.5	13.4
pH (SU)	60	0	<5	0	0		6.2	6.8	7.2	8.4	10.3	11.5	13.4
	60	0	<6	26	43.3	> 99.9	4.3	5.3	5.5	6.1	6.6	6.7	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		4.3	5.3	5.5	6.1	6.6	6.7	7.2
	55	17	N/A				40	47	47	51	76	93	139
Water Temperature (°C)	60	0	>32	0	0		2.4	6.6	9.4	17.6	24.1	26.2	28
Other													
TSS (mg/L)	60	16	N/A				1	2.1	2.5	3	6	11.9	48
Turbidity (NTU)	60	0	>50	1	1.7		1.5	2.2	3	4	6.3	9	64.3
Nutrients (mg/L)													
NH3 as N	60	28	N/A				0.02	0.02	0.02	0.02	0.05	0.13	0.37
NO2 + NO3 as N	60	2	N/A				0.02	0.1	0.21	0.42	0.85	1.78	3.17
TKN as N	60	6	N/A				0.2	0.2	0.4	0.56	0.69	0.78	1.09
Total Phosphorus	55	3	N/A				0.02	0.03	0.05	0.1	0.25	0.4	0.55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	100	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOWER LITTLE RIV AT SR 1609 NR WALKERTOWN

Station #: B7319100

Hydrologic Unit Code: 03030004

Latitude: 35.25982

Longitude: -78.82307

Stream class: C

Agency: MCFRBA

NC stream index: 18-23-24

Time period: 01/08/2009 to 12/20/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.2	6.6	7.3	8.4	10.2	11.4	13.5
	60	0	<5	0	0		6.2	6.6	7.3	8.4	10.2	11.4	13.5
pH (SU)	60	0	<6	24	40	> 99.9	4.2	5.3	5.6	6.2	6.6	6.8	6.9
	60	0	>9	0	0		4.2	5.3	5.6	6.2	6.6	6.8	6.9
Spec. conductance (umhos/cm at 25°C)	57	14	N/A				47	47	47	57	78	99	139
Water Temperature (°C)	60	0	>32	0	0		2.3	6.4	9.6	17.4	24.1	26.2	28
Other													
TSS (mg/L)	60	15	N/A				1	2.1	2.5	5	8	12.9	57
Turbidity (NTU)	60	0	>50	0	0		1.2	2.2	3	4.2	6.4	9.6	41.2
Nutrients (mg/L)													
NH3 as N	60	38	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.09
NO2 + NO3 as N	60	1	N/A				0.02	0.19	0.31	0.61	0.99	1.85	2.49
TKN as N	60	6	N/A				0.2	0.2	0.39	0.51	0.64	0.82	1.38
Total Phosphorus	55	2	N/A				0.02	0.04	0.09	0.16	0.27	0.41	0.61
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	84.4	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT HOFFER WTP INTAKE AT FAYETTEVILLE

Station #: B7480000

Hydrologic Unit Code: 03030004

Latitude: 35.08143

Longitude: -78.86355

Stream class: WS-IV CA

Agency: MCFRBA

NC stream index: 18-(25.5)

Time period: 01/14/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		5	5.9	6.4	7.5	9.3	10.8	12.4
	119	0	<5	1	0.8		5	5.9	6.4	7.5	9.3	10.8	12.4
pH (SU)	119	0	<6	3	2.5		5.9	6.3	6.5	6.9	7.2	7.3	8.2
	119	0	>9	0	0		5.9	6.3	6.5	6.9	7.2	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				74	96	109	128	157	181	227
Water Temperature (°C)	119	0	>32	2	1.7		3.5	8	13.2	23.4	27.5	29.6	32.8
Other													
TSS (mg/L)	60	4	N/A				2	3	4.2	8	15.5	28	53
Turbidity (NTU)	60	0	>50	1	1.7		2.7	4	5.6	8.5	15.8	24.2	60.4
Nutrients (mg/L)													
NH3 as N	60	34	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.12
NO2 + NO3 as N	60	0	>10	0	0		0.08	0.35	0.49	0.68	0.87	1.09	1.34
TKN as N	60	4	N/A				0.2	0.23	0.46	0.67	0.76	1.02	1.87
Total Phosphorus	54	1	N/A				0.02	0.06	0.08	0.11	0.14	0.18	0.43
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	66.1	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT I 95 BELOW FAYETTEVILLE

Station #: B7500000

Hydrologic Unit Code: 03030004

Latitude: 34.98200

Longitude: -78.84782

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26)

Time period: 01/14/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		5.1	5.6	6.2	7.5	9.2	10.6	12.2
	119	0	<5	0	0		5.1	5.6	6.2	7.5	9.2	10.6	12.2
pH (SU)	119	0	<6	4	3.4		5.8	6.2	6.5	6.9	7.1	7.3	8.4
	119	0	>9	0	0		5.8	6.2	6.5	6.9	7.1	7.3	8.4
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				69	107	114	132	156	194	216
Water Temperature (°C)	119	0	>32	0	0		3.4	8.1	13.2	23	27.2	29.6	32
Other													
TSS (mg/L)	60	3	N/A				1	3	5	8	12.8	30.9	55
Turbidity (NTU)	60	0	>50	1	1.7		2.1	3.8	5.8	9.3	13.5	22.4	62.4
Nutrients (mg/L)													
NH3 as N	60	31	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.15
NO2 + NO3 as N	60	0	N/A				0.22	0.49	0.56	0.78	0.92	1.11	1.3
TKN as N	60	5	N/A				0.2	0.33	0.5	0.69	0.81	0.92	1.22
Total Phosphorus	54	1	N/A				0.02	0.07	0.08	0.11	0.14	0.18	0.45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	69.9	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CROSS CRK AT CROSS CREEK PARK AT FAYETTEVILLE

Station #: B7547000

Hydrologic Unit Code: 03030004

Latitude: 35.05386

Longitude: -78.87691

Stream class: C

Agency: MCFRBA

NC stream index: 18-27-(3)

Time period: 01/14/2009 to 06/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	0	0		5.7	7.6	8.2	9.3	11	12.3	15.4
pH (SU)	54	0	<5	0	0		5.7	7.6	8.2	9.3	11	12.3	15.4
	54	0	<6	10	18.5	96	5.5	5.8	6.1	6.5	6.9	7.2	8.2
Spec. conductance (umhos/cm at 25°C)	54	0	>9	0	0		5.5	5.8	6.1	6.5	6.9	7.2	8.2
	54	3	N/A				47	48	53	60	67	73	277
Water Temperature (°C)	54	0	>32	0	0		1.7	6	9.8	17.2	23.1	26.4	28.1
Other													
TSS (mg/L)	54	21	N/A				1	1	2.5	2.8	5	9.5	53
Turbidity (NTU)	54	0	>50	0	0		0.1	2.6	3.4	4.6	6.9	12.2	32.5
Nutrients (mg/L)													
NH3 as N	54	21	N/A				0.02	0.02	0.02	0.03	0.06	0.1	0.28
NO2 + NO3 as N	54	1	N/A				0.02	0.06	0.12	0.2	0.28	0.39	0.49
TKN as N	54	9	N/A				0.2	0.2	0.3	0.4	0.54	0.75	4.12
Total Phosphorus	48	17	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	263.4	19	35.2	99.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BLOUNTS CRK AT US 301A PERSON ST AT FAYETTEVILLE

Station #: B7584000

Hydrologic Unit Code: 03030004

Latitude: 35.04976

Longitude: -78.87033

Stream class: C

Agency: MCFRBA

NC stream index: 18-27-5

Time period: 01/14/2009 to 06/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	0	0		4.9	6.6	7.5	8.3	10.2	11.6	13.5
	54	0	<5	1	1.9		4.9	6.6	7.5	8.3	10.2	11.6	13.5
pH (SU)	54	0	<6	18	33.3	> 99.9	5.4	5.6	5.9	6.1	6.6	6.9	8.1
	54	0	>9	0	0		5.4	5.6	5.9	6.1	6.6	6.9	8.1
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				52	58	72	80	87	96	185
Water Temperature (°C)	54	0	>32	0	0		3.4	7.6	10.9	17.7	22.8	26.3	28.8
Other													
TSS (mg/L)	54	17	N/A				1	2	2.5	3	6	10.5	129
Turbidity (NTU)	54	0	>50	1	1.9		2.1	3	4	5.4	7.4	9.9	97.9
Nutrients (mg/L)													
NH3 as N	54	7	N/A				0.02	0.02	0.03	0.06	0.09	0.12	0.15
NO2 + NO3 as N	54	0	N/A				0.09	0.17	0.28	0.36	0.45	0.52	0.65
TKN as N	54	7	N/A				0.2	0.2	0.31	0.41	0.53	0.66	1.02
Total Phosphorus	48	11	N/A				0.02	0.02	0.02	0.03	0.05	0.06	0.42
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	376.5	24	44.4	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: UT TO CROSS CRK OFF ANNE ST AT FAYETTEVILLE

Station #: B7584800

Hydrologic Unit Code: 03030004

Latitude: 35.06282

Longitude: -78.87182

Stream class: C

Agency: MCFRBA

NC stream index: 18-27-(3)

Time period: 01/14/2009 to 06/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	4	7.4		0.8	4.5	5.8	7	8.6	9.7	11.7
	54	0	<5	9	16.7	91.3	0.8	4.5	5.8	7	8.6	9.7	11.7
pH (SU)	54	0	<6	0	0		6	6.3	6.4	6.7	6.9	7.2	7.7
	54	0	>9	0	0		6	6.3	6.4	6.7	6.9	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				62	114	192	231	253	298	517
Water Temperature (°C)	54	0	>32	0	0		5.4	8.6	11.4	15.8	21.5	24.5	25.4
Other													
TSS (mg/L)	54	8	N/A				2	2.5	4.8	6	10.2	16.5	119
Turbidity (NTU)	54	0	>50	4	7.4		6.8	12.2	15.1	18.6	22.1	32.6	116
Nutrients (mg/L)													
NH3 as N	54	3	N/A				0.02	0.04	0.07	0.1	0.16	0.26	0.67
NO2 + NO3 as N	54	0	N/A				0.05	0.06	0.11	0.16	0.26	0.35	0.81
TKN as N	54	3	N/A				0.2	0.34	0.54	0.76	0.9	1.39	1.51
Total Phosphorus	48	3	N/A				0.02	0.02	0.03	0.05	0.07	0.16	0.55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	736.2	29	53.7	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: UT TO CROSS CRK AT CROSS CREEK WRF AT FAYETTEVILLE

Station #: B7584900

Hydrologic Unit Code: 03030004

Latitude: 35.05991

Longitude: -78.86468

Stream class: C

Agency: MCFRBA

NC stream index: 18-27-(3)

Time period: 01/14/2009 to 10/30/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	12	21.8	99.3	0.6	2.7	4.2	5.5	8	9.6	11.3
	55	0	<5	22	40	> 99.9	0.6	2.7	4.2	5.5	8	9.6	11.3
pH (SU)	55	0	<6	0	0		6.8	7.1	7.3	7.6	7.8	7.9	8.2
	55	0	>9	0	0		6.8	7.1	7.3	7.6	7.8	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				100	668	772	954	1080	1415	1973
Water Temperature (°C)	55	0	>32	0	0		2	5.3	10.2	14.5	21.3	24.7	26
Other													
TSS (mg/L)	55	6	N/A				2	2.5	4	8	16	40.8	200
Turbidity (NTU)	55	0	>50	5	9.1		1.8	5.1	9.3	16.2	24	55.8	225
Nutrients (mg/L)													
NH3 as N	55	1	N/A				0.02	0.14	0.57	6.71	15.9	23.08	36
NO2 + NO3 as N	55	2	N/A				0.02	0.48	0.88	1.92	4.43	5.64	12.5
TKN as N	55	0	N/A				0.65	2.25	3.23	8.58	20.3	29.04	82.9
Total Phosphorus	49	2	N/A				0.02	0.04	0.06	0.09	0.14	0.3	0.82
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	496.4	24	43.6	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CROSS CRK AT US 301 BUS AND I 95 BUS AT FAYETTEVILLE

Station #: B7590000

Hydrologic Unit Code: 03030004

Latitude: 35.05467

Longitude: -78.86223

Stream class: C

Agency: MCFRBA

NC stream index: 18-27-(3)

Time period: 01/14/2009 to 12/27/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.2	7	7.7	9	10.7	11.6	14.7
	60	0	<5	0	0		6.2	7	7.7	9	10.7	11.6	14.7
pH (SU)	60	0	<6	1	1.7		5.9	6.1	6.4	6.6	7	7.4	7.9
	60	0	>9	0	0		5.9	6.1	6.4	6.6	7	7.4	7.9
Spec. conductance (umhos/cm at 25°C)	59	2	N/A				47	52	60	69	78	83	113
Water Temperature (°C)	60	0	>32	0	0		2.1	6.4	10.2	17.4	23.7	26.3	28.8
Other													
TSS (mg/L)	60	21	N/A				1	2	2.5	3	6	11.9	35
Turbidity (NTU)	60	0	>50	0	0		2.5	2.8	3.4	4.5	6.7	11.6	30.7
Nutrients (mg/L)													
NH3 as N	60	21	N/A				0.02	0.02	0.02	0.03	0.08	0.11	0.23
NO2 + NO3 as N	60	0	N/A				0.01	0.1	0.18	0.27	0.37	0.47	1.09
TKN as N	60	9	N/A				0.2	0.2	0.28	0.46	0.57	0.8	3.03
Total Phosphorus	54	17	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.52
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	398.5	24	40	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT NC 24 AT FAYETTEVILLE

Station #: B7600000

Hydrologic Unit Code: 03030004

Latitude: 35.04990

Longitude: -78.85745

Stream class: C

Agency: NCAMBNT

NC stream index: 18-(26)

Time period: 01/22/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<4	1	5.3		3.4	5.1	6.5	8.9	11.3	12.5	13.1
	19	0	<5	1	5.3		3.4	5.1	6.5	8.9	11.3	12.5	13.1
pH (SU)	19	0	<6	1	5.3		5.9	6.4	6.7	6.9	7.2	7.2	7.6
	19	0	>9	0	0		5.9	6.4	6.7	6.9	7.2	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				93	100	105	139	171	190	192
Water Temperature (°C)	19	0	>32	0	0		3.9	4.3	7.7	16.7	23.1	28.2	28.9
Other													
Hardness (mg/L)	13	0	N/A				26	27	29	32	34	38	38
TSS (mg/L)	17	2	N/A				6.2	6.2	7.8	9.5	12	22.4	24
Turbidity (NTU)	52	0	>50	0	0		3.4	5.7	8.4	11.5	13	23.7	45
Nutrients (mg/L)													
NH3 as N	52	22	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.1
NO2 + NO3 as N	52	0	N/A				0.35	0.49	0.56	0.73	0.92	1	1.3
TKN as N	52	0	N/A				0.36	0.48	0.52	0.59	0.66	0.71	0.94
Total Phosphorus	52	0	N/A				0.04	0.08	0.09	0.11	0.14	0.17	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
52	57.5	2	3.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKFISH CRK AT US 401 BYPASS NR RAEFORD

Station #: B7679300

Hydrologic Unit Code: 03030004

Latitude: 34.99932

Longitude: -79.21514

Stream class: B

Agency: MCFRBA

NC stream index: 18-31-(12)

Time period: 01/14/2009 to 12/27/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5.3	6.4	7	8.2	9.8	10.6	12.5
pH (SU)	60	0	<5	0	0		5.3	6.4	7	8.2	9.8	10.6	12.5
	60	0	<6	60	100	> 99.9	3.5	3.8	4	4.3	4.9	5.2	5.9
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		3.5	3.8	4	4.3	4.9	5.2	5.9
	37	31	N/A				13	43	47	47	47	48	62
Water Temperature (°C)	60	0	>32	0	0		4.3	7.5	10.5	16.8	21.2	24.4	25.6
Other													
TSS (mg/L)	60	17	N/A				1	1.1	2.5	3	5.8	8	34
Turbidity (NTU)	60	0	>50	0	0		1.6	1.8	2.3	2.8	4.1	7	23.1
Nutrients (mg/L)													
NH3 as N	60	47	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
NO2 + NO3 as N	60	2	N/A				0.02	0.04	0.05	0.06	0.09	0.15	0.8
TKN as N	60	14	N/A				0.18	0.2	0.2	0.32	0.41	0.54	0.97
Total Phosphorus	54	30	N/A				0.01	0.02	0.02	0.02	0.03	0.03	0.45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	97.3	7	11.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKFISH CRK AT SR 1432 NR RAEFORD

Station #: B7700000

Hydrologic Unit Code: 03030004

Latitude: 34.96826

Longitude: -79.10959

Stream class: B

Agency: MCFRBA

NC stream index: 18-31-(18)

Time period: 01/14/2009 to 12/27/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5.1	6.7	7.2	8.1	10	10.9	12.7
pH (SU)	60	0	<5	0	0		5.1	6.7	7.2	8.1	10	10.9	12.7
	60	0	<6	49	81.7	> 99.9	4.3	4.6	5	5.5	5.8	6.5	7
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		4.3	4.6	5	5.5	5.8	6.5	7
	42	25	N/A				29	47	47	47	51	62	67
Water Temperature (°C)	60	0	>32	0	0		3.9	7.2	10.4	17.1	21.6	24.5	26.5
Other													
TSS (mg/L)	60	11	N/A				2	2.5	2.6	4	7.8	14.8	18
Turbidity (NTU)	60	0	>50	0	0		1.4	1.8	2.6	3.6	6	8.1	13.8
Nutrients (mg/L)													
NH3 as N	60	39	N/A				0.02	0.02	0.02	0.02	0.03	0.09	0.26
NO2 + NO3 as N	60	0	N/A				0.12	0.25	0.32	0.47	0.61	0.81	1.35
TKN as N	60	9	N/A				0.2	0.2	0.31	0.44	0.62	0.83	1.61
Total Phosphorus	54	0	N/A				0.02	0.03	0.05	0.11	0.17	0.29	0.62
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	238.2	16	26.7	86.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKFISH CRK AT SR 1432 NR RAEFORD

Station #: B7700000

Hydrologic Unit Code: 03030004

Latitude: 34.96826

Longitude: -79.10959

Stream class: B

Agency: NCAMBNT

NC stream index: 18-31-(18)

Time period: 01/06/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	24	0	<4	0	0		5.5	6.5	7.2	8.7	10.9	11.7	12.2
	24	0	<5	0	0		5.5	6.5	7.2	8.7	10.9	11.7	12.2
pH (SU)	26	0	<6	12	46.2	> 99.9	4.5	4.9	5.4	6.1	6.7	7	7.1
	26	0	>9	0	0		4.5	4.9	5.4	6.1	6.7	7	7.1
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				26	28	29	37	44	53	62
Water Temperature (°C)	26	0	>32	0	0		3.2	5.6	7.4	13.8	20.2	23.7	24.8
Other													
Hardness (mg/L)	14	0	N/A				5	5	5	6	7	7	7
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.7	11.2	15.7	28
Turbidity (NTU)	58	0	>50	0	0		1.9	2.4	3.4	5.6	7.3	10	19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
56	188.9		11	19.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKFISH CRK AT SR 2350 NR CEDAR CREEK

Station #: B8224000

Hydrologic Unit Code: 03030004

Latitude: 34.96101

Longitude: -78.89911

Stream class: C

Agency: NCAMBNT

NC stream index: 18-31-(23)

Time period: 01/06/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	24	0	<4	0	0		6.7	6.8	7.6	9.7	11.7	12.1	12.3
	24	0	<5	0	0		6.7	6.8	7.6	9.7	11.7	12.1	12.3
pH (SU)	26	0	<6	4	15.4	74	4.9	5.6	6.1	6.5	7	7.5	8.3
	26	0	>9	0	0		4.9	5.6	6.1	6.5	7	7.5	8.3
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				34	36	41	43	46	48	52
Water Temperature (°C)	26	0	>32	0	0		4.8	5.9	7.3	14.6	22.1	25.2	27.8
Other													
Hardness (mg/L)	14	0	N/A				6	6	8	8	9	10	10
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8.9	15.2	18.8	22
Turbidity (NTU)	59	0	>50	0	0		2.7	3.8	5.4	7.2	11	17	35
Nutrients (mg/L)													
NH3 as N	59	12	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.06
NO2 + NO3 as N	59	0	N/A				0.09	0.18	0.23	0.29	0.39	0.48	0.56
TKN as N	59	0	N/A				0.2	0.28	0.34	0.42	0.49	0.55	0.75
Total Phosphorus	59	0	N/A				0.02	0.03	0.05	0.07	0.09	0.11	0.16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	81.5	5	8.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKFISH CRK AT NC 87 NR FAYETTEVILLE

Station #: B8230000

Hydrologic Unit Code: 03030004

Latitude: 34.95608

Longitude: -78.84405

Stream class: C

Agency: MCFRBA

NC stream index: 18-31-(23)

Time period: 01/14/2009 to 12/27/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.2	6.7	7.4	8.3	10	11	13.2
pH (SU)	60	0	<5	0	0		6.2	6.7	7.4	8.3	10	11	13.2
	60	0	<6	36	60	> 99.9	3.6	5.1	5.4	5.6	6.3	6.7	7.6
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		3.6	5.1	5.4	5.6	6.3	6.7	7.6
	46	32	N/A				36	47	47	47	47	55	59
Water Temperature (°C)	60	0	>32	0	0		3.4	8.1	9.9	18.4	23.5	26.4	28.8
Other													
TSS (mg/L)	60	4	N/A				2	2.5	4	7.5	12	22.8	50
Turbidity (NTU)	60	0	>50	0	0		2.2	3.6	4.9	6.5	8.9	13.2	29.5
Nutrients (mg/L)													
NH3 as N	60	44	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.09
NO2 + NO3 as N	60	0	N/A				0.07	0.15	0.19	0.27	0.36	0.47	0.55
TKN as N	60	7	N/A				0.19	0.2	0.31	0.44	0.61	0.74	9.68
Total Phosphorus	54	4	N/A				0.02	0.03	0.04	0.06	0.08	0.1	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	90.4	5	8.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT DUPONT WATER INTAKE UPS LOCK AND DAM 3

Station #: B8290000

Hydrologic Unit Code: 03030005

Latitude: 34.84945

Longitude: -78.82629

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-(26.25)

Time period: 01/14/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		4.9	5.6	6.3	7.4	9.1	10.7	12.3
	119	0	<5	2	1.7		4.9	5.6	6.3	7.4	9.1	10.7	12.3
pH (SU)	119	0	<6	4	3.4		5.5	6.1	6.3	6.8	7.1	7.3	8.6
	119	0	>9	0	0		5.5	6.1	6.3	6.8	7.1	7.3	8.6
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				74	102	110	125	145	166	205
Water Temperature (°C)	119	0	>32	0	0		3.3	8	13.2	22.7	27.5	29.3	31.3
Other													
Chlorophyll a (ug/L)	32	0	>40	1	3.1		1	1	2	7	18	25	44
TSS (mg/L)	60	3	N/A				2.5	4	6	10	14	27.4	57
Turbidity (NTU)	60	0	>50	1	1.7		1.3	4	6.7	8.8	11.6	23	57.1
Nutrients (mg/L)													
NH3 as N	60	31	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.14
NO2 + NO3 as N	60	0	>10	0	0		0.4	0.52	0.63	0.84	1	1.21	1.64
TKN as N	60	5	N/A				0.16	0.2	0.48	0.69	0.82	0.94	1.14
Total Phosphorus	54	0	N/A				0.04	0.07	0.1	0.13	0.17	0.21	0.5
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	61	5	8.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT WO HUSKE LOCK NR TAR HEEL
Station #: B8300000 **Hydrologic Unit Code:** 03030005
Latitude: 34.83487 **Longitude:** -78.82263 **Stream class:** WS-IV
Agency: NCAMBNT **NC stream index:** 18-(26.25)
Time period: 01/05/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	23	0	<4	1	4.3		3.8	5.2	6.6	8.6	11.4	12.8	13.7
pH (SU)	23	0	<5	2	8.7		3.8	5.2	6.6	8.6	11.4	12.8	13.7
	23	0	<6	2	8.7		5.2	5.9	6.1	6.5	6.7	6.9	7
	23	0	>9	0	0		5.2	5.9	6.1	6.5	6.7	6.9	7
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				91	93	109	123	138	158	169
Water Temperature (°C)	23	0	>32	0	0		3.6	7.2	9.2	17.7	23.4	28.5	30.1

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT POWER LINES NR TOLARSVILLE

Station #: B8302000

Hydrologic Unit Code: 03030005

Latitude: 34.78434

Longitude: -78.79825

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-(26.25)

Time period: 01/13/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		4.9	5.8	6.4	7.3	9.2	10.4	12.6
	119	0	<5	2	1.7		4.9	5.8	6.4	7.3	9.2	10.4	12.6
pH (SU)	119	0	<6	11	9.2		5.6	6	6.3	6.6	6.9	7	8.1
	119	0	>9	0	0		5.6	6	6.3	6.6	6.9	7	8.1
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				51	100	110	134	157	179	231
Water Temperature (°C)	119	0	>32	0	0		3.4	8	14.1	23	27.3	29.1	31.4
Other													
TSS (mg/L)	60	10	N/A				2.5	2.5	4	7.5	12.8	36.3	141
Turbidity (NTU)	60	0	>50	4	6.7		2.7	3.6	5.3	8.2	12.3	30.6	98.6
Nutrients (mg/L)													
NH3 as N	60	17	N/A				0.02	0.02	0.02	0.04	0.08	0.12	0.33
NO2 + NO3 as N	60	0	>10	0	0		0.3	0.52	0.69	0.94	1.19	1.62	1.83
TKN as N	60	3	N/A				0.2	0.31	0.5	0.68	0.86	1.01	2.03
Total Phosphorus	54	1	N/A				0.02	0.1	0.14	0.17	0.24	0.35	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	30.4	5	8.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT SR 1316 AT TAR HEEL

Station #: B8305000

Hydrologic Unit Code: 03030005

Latitude: 34.74477

Longitude: -78.78563

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26.75)

Time period: 01/13/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		4.7	5.6	6.2	7.1	9.2	10.6	12.5
	119	0	<5	1	0.8		4.7	5.6	6.2	7.1	9.2	10.6	12.5
pH (SU)	119	0	<6	3	2.5		5.6	6.1	6.3	6.6	6.8	7	8
	119	0	>9	0	0		5.6	6.1	6.3	6.6	6.8	7	8
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				52	102	112	141	162	191	226
Water Temperature (°C)	119	0	>32	0	0		3.4	8	14.1	23.1	27.3	29.3	31.4
Other													
Chlorophyll a (ug/L)	32	0	>40	1	3.1		1	1	2	6	11	20	44
TSS (mg/L)	60	5	N/A				2.5	3	5	8.5	14.8	37.8	133
Turbidity (NTU)	60	0	>50	4	6.7		1.3	4.1	5.9	8.9	13	34.3	96.8
Nutrients (mg/L)													
NH3 as N	60	16	N/A				0.02	0.02	0.02	0.04	0.08	0.13	0.34
NO2 + NO3 as N	60	0	N/A				0.29	0.59	0.75	1.09	1.29	1.68	1.85
TKN as N	60	3	N/A				0.2	0.32	0.5	0.66	0.84	1	1.28
Total Phosphorus	54	0	N/A				0.07	0.11	0.15	0.2	0.26	0.35	0.63
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	30.2	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT RM 80 NR RUSKIN

Station #: B8306000

Hydrologic Unit Code: 03030005

Latitude: 34.68308

Longitude: -78.68465

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26.75)

Time period: 01/13/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		4.7	5.6	6.3	6.9	8.9	10.2	11.8
	119	0	<5	5	4.2		4.7	5.6	6.3	6.9	8.9	10.2	11.8
pH (SU)	119	0	<6	8	6.7		5.6	6.1	6.3	6.6	6.8	7	7.5
	119	0	>9	0	0		5.6	6.1	6.3	6.6	6.8	7	7.5
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				54	102	115	136	156	184	223
Water Temperature (°C)	119	0	>32	0	0		3.6	8	13.9	23.2	27.8	29.2	31.3
Other													
TSS (mg/L)	60	1	N/A				2.5	3	5.2	8	12	29.4	130
Turbidity (NTU)	60	0	>50	2	3.3		3.1	4.7	6.7	9.2	14.2	27.2	105
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.04	0.09	0.11	0.2
NO2 + NO3 as N	60	0	N/A				0.08	0.53	0.75	0.98	1.3	1.48	1.89
TKN as N	60	1	N/A				0.2	0.33	0.56	0.69	0.8	1.01	1.36
Total Phosphorus	54	0	N/A				0.1	0.12	0.14	0.2	0.25	0.31	0.58
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	26.2	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HARRISON CRK AT SR 1320 AT BURNEY

Station #: B8315000

Hydrologic Unit Code: 03030005

Latitude: 34.73155

Longitude: -78.71616

Stream class: C

Agency: MCFRBA

NC stream index: 18-(42)

Time period: 01/13/2009 to 10/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	1	1.8		3.6	4.8	5.7	6.4	8.4	10.1	12
	56	0	<5	8	14.3	80.6	3.6	4.8	5.7	6.4	8.4	10.1	12
pH (SU)	56	0	<6	56	100	> 99.9	3.4	3.5	4	4.3	5.1	5.7	5.8
	56	0	>9	0	0		3.4	3.5	4	4.3	5.1	5.7	5.8
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				52	58	66	73	89	102	134
Water Temperature (°C)	56	0	>32	0	0		2.5	6.4	10.7	16	22.3	23.9	25.7
Other													
TSS (mg/L)	56	21	N/A				1	2	2.5	2.5	4	6	15
Turbidity (NTU)	56	1	>50	0	0		1	1.5	2.1	3.1	4.2	5.2	8.5
Nutrients (mg/L)													
NH3 as N	56	30	N/A				0.02	0.02	0.02	0.02	0.05	0.08	0.19
NO2 + NO3 as N	56	0	N/A				0.05	0.08	0.13	0.24	0.71	1.6	1.93
TKN as N	56	4	N/A				0.2	0.34	0.55	0.84	1.07	1.54	1.83
Total Phosphorus	50	2	N/A				0.02	0.02	0.03	0.05	0.1	0.14	0.64
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	116.4	5	8.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT US 701 AT ELIZABETHTOWN

Station #: B8320000

Hydrologic Unit Code: 03030005

Latitude: 34.63239

Longitude: -78.60286

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26.75)

Time period: 01/13/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		4.5	5.2	5.9	7.1	9	10.2	12.1
	119	0	<5	6	5		4.5	5.2	5.9	7.1	9	10.2	12.1
pH (SU)	119	0	<6	8	6.7		5.7	6.1	6.3	6.6	6.8	7	7.5
	119	0	>9	0	0		5.7	6.1	6.3	6.6	6.8	7	7.5
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				54	98	112	136	159	182	220
Water Temperature (°C)	119	0	>32	1	0.8		3.5	8.1	13.6	23.6	28	29.3	32.5
Other													
TSS (mg/L)	60	5	N/A				2	2.7	6	7.5	12	32.9	96
Turbidity (NTU)	60	0	>50	3	5		2.7	4.8	7	9	14.4	36.5	96.2
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.04	0.08	0.12	0.21
NO2 + NO3 as N	60	0	N/A				0.19	0.51	0.75	0.98	1.26	1.52	1.89
TKN as N	60	2	N/A				0.2	0.32	0.51	0.69	0.81	1.04	1.25
Total Phosphorus	54	0	N/A				0.1	0.12	0.14	0.2	0.24	0.29	0.52
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	27.4	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TURNBULL CRK AT SR 1509 NR JOHNSONTOWN

Station #: B8321000

Hydrologic Unit Code: 03030005

Latitude: 34.70839

Longitude: -78.60078

Stream class: C

Agency: NCAMBNT

NC stream index: 18-46

Time period: 01/05/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	26	0	<4	4	15.4	74	0.1	0.6	4.9	6.8	9.6	11.4	12.4
	26	0	<5	7	26.9	98.8	0.1	0.6	4.9	6.8	9.6	11.4	12.4
pH (SU)	26	0	<6	26	100	> 99.9	3.6	3.7	3.8	4	4.1	4.2	4.7
	26	0	>9	0	0		3.6	3.7	3.8	4	4.1	4.2	4.7
Spec. conductance (umhos/cm at 25°C)	26	0	N/A				44	48	59	66	77	87	112
Water Temperature (°C)	26	0	>32	0	0		1.3	4	7.4	13.5	19.5	22.5	22.9
Other													
Hardness (mg/L)	14	0	N/A				3	5	9	10	12	24	28
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	20.1	25
Turbidity (NTU)	59	2	>50	1	1.7		1	1.5	2.1	3.5	5.9	12	55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	75.1	3	5.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV ABOVE LOCK AND DAM 2

Station #: B8339000

Hydrologic Unit Code: 03030005

Latitude: 34.62762

Longitude: -78.57965

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26.75)

Time period: 01/13/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	1	0.8		3.6	5.2	6	7	9	10.5	12.2
	119	0	<5	9	7.6		3.6	5.2	6	7	9	10.5	12.2
pH (SU)	119	0	<6	6	5		5.7	6.1	6.3	6.6	6.8	7	7.4
	119	0	>9	0	0		5.7	6.1	6.3	6.6	6.8	7	7.4
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				54	96	113	135	157	181	213
Water Temperature (°C)	119	0	>32	2	1.7		3.5	8.1	13.7	23.2	28	29.4	32.3
Other													
Chlorophyll a (ug/L)	32	0	>40	0	0		1	1	3	6	12	19	29
TSS (mg/L)	60	2	N/A				2.5	4	7	9	16	35.9	84
Turbidity (NTU)	60	0	>50	3	5		2.8	5.1	6.9	10.2	18.2	34.2	80
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.04	0.08	0.14	0.22
NO2 + NO3 as N	60	0	N/A				0.3	0.54	0.71	0.95	1.25	1.53	2.49
TKN as N	60	2	N/A				0.2	0.36	0.56	0.71	0.87	1.05	1.44
Total Phosphorus	54	0	N/A				0.07	0.11	0.14	0.19	0.23	0.29	0.61
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	32.5	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT LOCK 2 NR ELIZABETHTOWN

Station #: B8340000

Hydrologic Unit Code: 03030005

Latitude: 34.62636

Longitude: -78.57678

Stream class: C

Agency: NCAMBNT

NC stream index: 18-(26.75)

Time period: 01/05/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	25	0	<4	0	0		5.5	5.7	6.6	7.7	11.2	12.3	13.1
pH (SU)	25	0	<5	0	0		5.5	5.7	6.6	7.7	11.2	12.3	13.1
	25	0	<6	4	16	76.3	5.1	5.8	6.1	6.4	6.8	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	25	0	>9	0	0		5.1	5.8	6.1	6.4	6.8	7.1	7.2
	25	0	N/A				96	100	110	123	153	166	174
Water Temperature (°C)	25	0	>32	0	0		3.8	6.1	8.8	16	23.7	28.5	29.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BROWNS CRK AT NC 87 NR ELIZABETHTOWN

Station #: B8340050

Hydrologic Unit Code: 03030005

Latitude: 34.61403

Longitude: -78.58475

Stream class: C

Agency: LCFRP

NC stream index: 18-45

Time period: 01/05/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	0	0		5.9	7	7.4	8.6	10.1	11.8	17
	59	0	<5	0	0		5.9	7	7.4	8.6	10.1	11.8	17
pH (SU)	60	0	<6	1	1.7		5.8	6.3	6.5	6.8	7	7	7.2
	60	0	>9	0	0		5.8	6.3	6.5	6.8	7	7	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				75	94	107	122	143	153	169
Water Temperature (°C)	60	0	>32	0	0		2.1	7.3	10.4	16.6	22.5	25.4	26.8
Other													
TSS (mg/L)	32	9	N/A				2	2	2.8	4	9.8	24.2	105
Turbidity (NTU)	28	0	>50	0	0		1.9	2.7	3	3.9	6.6	11.8	13.6
Nutrients (mg/L)													
NH3 as N	56	5	N/A				0.01	0.01	0.02	0.03	0.05	0.06	0.1
NO2 + NO3 as N	60	1	N/A				0.02	0.13	0.18	0.25	0.38	0.71	1.1
TKN as N	60	14	N/A				0.1	0.1	0.2	0.4	0.6	0.79	1.2
Total Phosphorus	57	0	N/A				0.03	0.05	0.06	0.09	0.11	0.19	0.36
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	298.9	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TURNBULL CRK AT US 701 NC 53 AND NC 41 NR ELIZABETHTOWN

Station #: B8340100

Hydrologic Unit Code: 03030005

Latitude: 34.64720

Longitude: -78.55650

Stream class: C

Agency: MCFRBA

NC stream index: 18-46

Time period: 01/12/2009 to 10/21/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	4	7.1		3.4	4.2	4.9	6.4	8.5	10	11.9
	56	0	<5	14	25	99.9	3.4	4.2	4.9	6.4	8.5	10	11.9
pH (SU)	56	0	<6	54	96.4	> 99.9	3.1	3.4	3.7	4.1	4.7	5.1	6.1
	56	0	>9	0	0		3.1	3.4	3.7	4.1	4.7	5.1	6.1
Spec. conductance (umhos/cm at 25°C)	56	3	N/A				47	49	52	62	72	88	99
Water Temperature (°C)	56	0	>32	0	0		3.4	7.2	11.4	15.8	22.2	24.6	25.9
Other													
TSS (mg/L)	56	26	N/A				1	1.7	2.5	2.5	3	5.3	8
Turbidity (NTU)	56	3	>50	0	0		1	1	1.4	2	2.8	3.9	15
Nutrients (mg/L)													
NH3 as N	56	34	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.13
NO2 + NO3 as N	56	0	N/A				0.03	0.05	0.06	0.09	0.13	0.14	2.99
TKN as N	56	5	N/A				0.2	0.23	0.44	0.66	0.88	1.26	2.07
Total Phosphorus	50	9	N/A				0.02	0.02	0.03	0.05	0.06	0.08	0.48
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	60.9	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT RM 70 NR ELIZABETHTOWN

Station #: B8340130

Hydrologic Unit Code: 03030005

Latitude: 34.62458

Longitude: -78.55048

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26.75)

Time period: 01/12/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	0	0		4.8	5.8	6.6	7.2	9.5	10.7	12.7
	119	0	<5	2	1.7		4.8	5.8	6.6	7.2	9.5	10.7	12.7
pH (SU)	119	0	<6	13	10.9	58.7	5.6	6	6.2	6.5	6.8	6.9	7.1
	119	0	>9	0	0		5.6	6	6.2	6.5	6.8	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				64	91	111	134	151	177	205
Water Temperature (°C)	119	0	>32	0	0		3.4	8.7	13.5	23.6	28.3	28.9	31.7
Other													
TSS (mg/L)	60	1	N/A				2.5	4	7	10.5	19.5	50	129
Turbidity (NTU)	60	0	>50	4	6.7		2.9	5.3	8.4	10.8	17.1	38.2	97
Nutrients (mg/L)													
NH3 as N	60	17	N/A				0.02	0.02	0.02	0.04	0.09	0.12	0.2
NO2 + NO3 as N	60	0	N/A				0.4	0.53	0.72	0.92	1.19	1.39	1.82
TKN as N	60	2	N/A				0.2	0.31	0.55	0.72	0.89	1.01	1.52
Total Phosphorus	54	0	N/A				0.07	0.12	0.15	0.17	0.24	0.32	0.52
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	49.5	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HAMMOND CRK AT SR 1704 NR MOUNT OLIVE

Station #: B8340200

Hydrologic Unit Code: 03030005

Latitude: 34.56896

Longitude: -78.55225

Stream class: C

Agency: LCFRP

NC stream index: 18-50

Time period: 01/05/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	1	1.7		2.9	5	6.3	7.4	9.9	12	17.5
	59	0	<5	5	8.5		2.9	5	6.3	7.4	9.9	12	17.5
pH (SU)	60	0	<6	0	0		6.2	6.5	6.6	6.9	7.1	7.3	7.6
	60	0	>9	0	0		6.2	6.5	6.6	6.9	7.1	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				71	108	136	172	212	240	277
Water Temperature (°C)	60	0	>32	0	0		2.4	6.8	10.4	16.4	21.8	25.3	28
Other													
TSS (mg/L)	31	6	N/A				2	2.7	3	4	6	22.5	32.1
Turbidity (NTU)	28	0	>50	0	0		1.8	3	3.6	5.2	6.2	10.9	12.8
Nutrients (mg/L)													
NH3 as N	56	8	N/A				0.01	0.01	0.02	0.04	0.08	0.15	0.62
NO2 + NO3 as N	60	12	N/A				0.02	0.02	0.02	0.13	0.29	0.66	1.36
TKN as N	60	11	N/A				0.1	0.1	0.2	0.4	0.6	0.8	1.8
Total Phosphorus	57	0	N/A				0.05	0.05	0.07	0.15	0.19	0.21	0.37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	310.9	21	35	99.5									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT RM 55 NR BLADEN SPRINGS

Station #: B8340650

Hydrologic Unit Code: 03030005

Latitude: 34.53518

Longitude: -78.43975

Stream class: WS-V

Agency: MCFRBA

NC stream index: 18-(49)

Time period: 01/12/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	2	1.7		3.8	4.9	5.9	6.7	8.9	10.1	12.2
	119	0	<5	14	11.8	69.7	3.8	4.9	5.9	6.7	8.9	10.1	12.2
pH (SU)	119	0	<6	11	9.2		5.7	6	6.2	6.6	6.8	6.9	9.9
	119	0	>9	1	0.8		5.7	6	6.2	6.6	6.8	6.9	9.9
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				61	89	112	127	148	179	215
Water Temperature (°C)	119	0	>32	2	1.7		3.3	8.9	13.4	23.5	28.3	30.1	32.5
Other													
TSS (mg/L)	60	2	N/A				2.5	4	4.2	8	13.8	36.1	131
Turbidity (NTU)	60	0	>50	2	3.3		2.2	4.7	6.9	9.7	14.3	34.9	65.5
Nutrients (mg/L)													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.04	0.08	0.13	0.18
NO2 + NO3 as N	60	0	>10	0	0		0.41	0.52	0.67	0.89	1.03	1.36	2.1
TKN as N	60	2	N/A				0.2	0.32	0.53	0.7	0.87	0.99	1.21
Total Phosphorus	54	1	N/A				0.02	0.11	0.13	0.16	0.2	0.31	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	49.2	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT SR 1730 ELWELL FERRY RD NR CARVERS

Station #: B8348000

Hydrologic Unit Code: 03030005

Latitude: 34.47400

Longitude: -78.36900

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-(53.5)

Time period: 01/12/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	1	0.8		3.8	5	6	6.8	8.9	10.4	12.5
	119	0	<5	12	10.1	46.6	3.8	5	6	6.8	8.9	10.4	12.5
pH (SU)	119	0	<6	12	10.1	46.6	5.5	6	6.2	6.5	6.8	7	9.8
	119	0	>9	1	0.8		5.5	6	6.2	6.5	6.8	7	9.8
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				62	91	113	125	150	173	200
Water Temperature (°C)	119	0	>32	3	2.5		3.4	8.9	13.5	24	28.3	29.8	32.5
Other													
TSS (mg/L)	60	1	N/A				2	4	5	8	13.8	30	154
Turbidity (NTU)	60	0	>50	2	3.3		2.3	5	7	9.7	15.2	29.3	101
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.04	0.08	0.12	0.2
NO2 + NO3 as N	60	0	>10	0	0		0.14	0.5	0.65	0.83	1.01	1.51	1.78
TKN as N	60	2	N/A				0.2	0.35	0.57	0.69	0.86	0.97	1.33
Total Phosphorus	54	0	N/A				0.03	0.1	0.13	0.16	0.22	0.32	0.42
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	42.6	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV ABOVE LOCK AND DAM 1 NR EAST ARCADIA

Station #: B8349000

Hydrologic Unit Code: 03030005

Latitude: 34.40693

Longitude: -78.29508

Stream class: WS-IV CA

Agency: MCFRBA

NC stream index: 18-(58.5)

Time period: 01/12/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	119	0	<4	2	1.7		3.2	4.9	6.1	6.9	9.2	10.5	15.8
	119	0	<5	12	10.1	46.6	3.2	4.9	6.1	6.9	9.2	10.5	15.8
pH (SU)	119	0	<6	13	10.9	58.7	5.7	6	6.3	6.6	6.8	7	9.2
	119	0	>9	1	0.8		5.7	6	6.3	6.6	6.8	7	9.2
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				63	90	110	125	145	171	213
Water Temperature (°C)	119	0	>32	2	1.7		3.6	9	13.6	23.7	28.3	30.4	33.6
Other													
Chlorophyll a (ug/L)	32	2	>40	0	0		1	2	2	7	23	32	39
TSS (mg/L)	60	2	N/A				2.5	5	6	9	15.8	39.5	171
Turbidity (NTU)	60	0	>50	2	3.3		1.5	5	7.2	10.2	15.7	35	114
Nutrients (mg/L)													
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.04	0.07	0.09	0.14
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.5	0.66	0.84	1.02	1.33	1.85
TKN as N	60	3	N/A				0.2	0.35	0.53	0.73	0.91	1.04	3.27
Total Phosphorus	54	0	N/A				0.04	0.1	0.12	0.15	0.22	0.3	0.37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	40	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT LOCK 1 NR KELLY

Station #: B8350000

Hydrologic Unit Code: 03030005

Latitude: 34.40376

Longitude: -78.29316

Stream class: WS-IV Sw

Agency: NCAMBNT

NC stream index: 18-(59)

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	N/A				4.6	6.1	6.8	8.2	10.1	11.5	12.6
pH (SU)	55	0	<4.3	0	0		5.8	6.2	6.3	6.5	6.9	7.2	7.4
	55	0	>9	0	0		5.8	6.2	6.3	6.5	6.9	7.2	7.4
Salinity (ppt)	56	0	N/A				0.03	0.04	0.04	0.06	0.07	0.08	0.1
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				84	99	114	138	156	170	205
Water Temperature (°C)	57	0	>32	1	1.8		5.1	8.3	12.2	20.4	27.4	30.3	32.6
Other													
Chlorophyll a (ug/L)	20	0	>40	1	5		1	1	2	7	13	33	83
Hardness (mg/L)	14	0	>100	0	0		22	22	26	26	31	32	33
TSS (mg/L)	20	6	N/A				6.2	6.2	7.6	10.5	13.8	37.6	57
Turbidity (NTU)	56	0	>50	0	0		3.9	6.3	9.1	13.5	17	24.5	40
Nutrients (mg/L)													
NH3 as N	56	9	N/A				0.02	0.02	0.02	0.04	0.06	0.08	0.14
NO2 + NO3 as N	56	1	>10	0	0		0.02	0.51	0.65	0.86	1.1	1.4	1.9
TKN as N	56	0	N/A				0.42	0.48	0.53	0.61	0.67	0.78	1.5
Total Phosphorus	56	0	N/A				0.1	0.11	0.14	0.17	0.2	0.25	0.31

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	13.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT NC 11 NR EAST ARCADIA

Station #: B8360000

Hydrologic Unit Code: 03030005

Latitude: 34.39687

Longitude: -78.26752

Stream class: WS-IV Sw

Agency: LCFRP

NC stream index: 18-(59)

Time period: 01/07/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	132	0	N/A				4.5	6	6.5	7.3	9.3	11	13.2
pH (SU)	134	0	<4.3	0	0		5.9	6.4	6.6	6.7	6.9	7	7.6
	134	0	>9	0	0		5.9	6.4	6.6	6.7	6.9	7	7.6
Spec. conductance (umhos/cm at 25°C)	134	0	N/A				78	107	115	132	153	171	210
Water Temperature (°C)	134	0	>32	1	0.7		4.4	10.4	16.1	25.3	28.9	30.4	32.2
Other													
Chlorophyll a (ug/L)	11	0	>40	0	0		1	1	2	2	7	26	28
TSS (mg/L)	60	0	N/A				3	3.9	5.6	8.3	16.5	29.3	56
Turbidity (NTU)	60	0	>50	0	0		3	5.6	7.5	11.6	18.9	26.9	49.3
Nutrients (mg/L)													
NH3 as N	58	1	N/A				0.01	0.02	0.03	0.05	0.09	0.12	0.17
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.36	0.59	0.77	0.95	1.33	1.88
TKN as N	60	12	N/A				0.1	0.1	0.3	0.4	0.6	0.8	2
Total Phosphorus	58	0	N/A				0.08	0.11	0.13	0.17	0.2	0.26	0.31
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	24.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LIVINGSTON CRK AT WRIGHT CORPORATION WALKWAY NR ACME
Station #: B8441000 **Hydrologic Unit Code:** 03030005
Latitude: 34.33527 **Longitude:** -78.20111 **Stream class:** C Sw
Agency: LCFRP **NC stream index:** 18-64
Time period: 01/08/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				1.4	2.1	3.3	4.7	7.7	9.8	11.5
pH (SU)	59	0	<4.3	0	0		5.8	6.4	6.5	6.8	6.9	7.2	7.5
	59	0	>9	0	0		5.8	6.4	6.5	6.8	6.9	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				70	99	105	136	165	176	1810
Water Temperature (°C)	59	0	>32	0	0		4.8	7.6	11.8	19.2	24.8	26.9	28.6
Other													
TSS (mg/L)	59	31	N/A				2	2	2.7	2.8	3.6	4.8	13
Nutrients (mg/L)													
NH3 as N	57	1	N/A				0.01	0.08	0.1	0.13	0.27	0.98	2.95
NO2 + NO3 as N	59	4	N/A				0.02	0.03	0.11	0.19	0.35	0.67	1.23
TKN as N	59	4	N/A				0.1	0.2	0.3	0.6	0.8	1.1	3.1
Total Phosphorus	56	12	N/A				0.02	0.02	0.02	0.03	0.05	0.06	0.09
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	99.5	6	10.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LIVINGSTON CRK AT WRIGHT CORPORATION WALKWAY NR ACME
Station #: B8441000 **Hydrologic Unit Code:** 03030005
Latitude: 34.33527 **Longitude:** -78.20111 **Stream class:** C Sw
Agency: NCAMBNT **NC stream index:** 18-64

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	N/A				1.3	2	2.8	4.1	7.3	8.4	12.7
pH (SU)	55	0	<4.3	0	0		5.7	5.9	6	6.1	6.3	6.3	6.7
	55	0	>9	0	0		5.7	5.9	6	6.1	6.3	6.3	6.7
Salinity (ppt)	54	0	N/A				0.03	0.03	0.04	0.06	0.06	0.07	0.09
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				82	94	105	135	151	162	188
Water Temperature (°C)	56	0	>32	0	0		1.7	9.1	12.9	18.2	25.4	27.2	28.8
Other													
Chlorophyll a (ug/L)	2	0	>40	0	0		2	2	2	11	20	20	20
Hardness (mg/L)	14	0	N/A				30	33	40	46	50	54	55
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	10.8	12	16
Turbidity (NTU)	56	0	>50	0	0		2	2.7	3.5	4.3	5.6	7.8	33
Nutrients (mg/L)													
NH3 as N	56	1	N/A				0.02	0.04	0.07	0.1	0.18	0.38	1.8
NO2 + NO3 as N	56	0	N/A				0.02	0.07	0.1	0.18	0.41	0.65	1.2
TKN as N	56	1	N/A				0.2	0.42	0.52	0.69	0.8	1.43	4.4
Total Phosphorus	56	6	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	64.1	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT NEILS EDDY LANDING NR ACME
Station #: B8450000 **Hydrologic Unit Code:** 03030005
Latitude: 34.35547 **Longitude:** -78.17942 **Stream class:** C Sw
Agency: LCFRP **NC stream index:** 18-(63)

Time period: 01/07/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	132	0	N/A				3.9	5.3	5.7	6.7	8.9	12.9
pH (SU)	134	0	<4.3	0	0		6.2	6.6	6.8	6.9	7.1	7.6
	134	0	>9	0	0		6.2	6.6	6.8	6.9	7.1	7.6
Spec. conductance (umhos/cm at 25°C)	134	0	N/A				96	115	130	168	257	1239
Water Temperature (°C)	134	0	>32	0	0		4.5	10.8	16.2	25.3	28.8	31.7
Other												
TSS (mg/L)	60	0	N/A				2	3.8	5.5	8	15	62
Nutrients (mg/L)												
NH3 as N	59	0	N/A				0.01	0.02	0.06	0.09	0.12	0.46
NO2 + NO3 as N	60	1	N/A				0.02	0.42	0.59	0.76	0.88	1.71
TKN as N	60	9	N/A				0.1	0.1	0.3	0.5	0.7	1.6
Total Phosphorus	58	0	N/A				0.09	0.12	0.14	0.18	0.21	0.32
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	30	2	3.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT NEILS EDDY LANDING NR ACME

Station #: B8450000

Hydrologic Unit Code: 03030005

Latitude: 34.35547

Longitude: -78.17942

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-(63)

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	N/A				4.4	5.6	6.3	7	9.6	11.3	12.4
pH (SU)	55	0	<4.3	0	0		6	6.3	6.4	6.7	7	7.3	7.5
	55	0	>9	0	0		6	6.3	6.4	6.7	7	7.3	7.5
Salinity (ppt)	56	0	N/A				0.04	0.04	0.05	0.08	0.1	0.16	0.22
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				100	105	125	174	256	324	436
Water Temperature (°C)	57	0	>32	1	1.8		5.4	8.4	12.3	20.7	27	30.7	32.3
Other													
Chlorophyll a (ug/L)	9	1	>40	0	0		1	1	3	8	17	24	24
Hardness (mg/L)	15	0	N/A				20	23	28	30	33	39	43
TSS (mg/L)	21	12	N/A				6.2	6.2	6.2	8	12	29	32
Turbidity (NTU)	57	0	>50	0	0		3.3	5.9	8.1	11	15	24.4	45
Nutrients (mg/L)													
NH3 as N	8	0	N/A				0.05	0.05	0.1	0.11	0.2	0.24	0.24
NO2 + NO3 as N	8	0	N/A				0.47	0.47	0.47	0.65	0.91	1.2	1.2
TKN as N	8	0	N/A				0.61	0.61	0.64	0.72	0.77	0.81	0.81
Total Phosphorus	8	0	N/A				0.11	0.11	0.16	0.18	0.23	0.23	0.23
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	17.7	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT INTAKE NR HOOVER HILL

Station #: B8465000

Hydrologic Unit Code: 03030005

Latitude: 34.33581

Longitude: -78.05436

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-(63)

Time period: 01/07/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	132	0	N/A				3.2	4.1	4.6	5.7	8.4	12.4
pH (SU)	134	0	<4.3	0	0		6.2	6.7	6.8	6.9	7	7.3
	134	0	>9	0	0		6.2	6.7	6.8	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	134	0	N/A				93	125	149	198	244	417
Water Temperature (°C)	134	0	>32	0	0		4.4	11.1	16.1	24.6	28.4	31.8
Other												
TSS (mg/L)	60	1	N/A				3	5.7	6.6	10	16.2	54
Nutrients (mg/L)												
NH3 as N	59	2	N/A				0.01	0.04	0.06	0.08	0.12	0.23
NO2 + NO3 as N	60	1	N/A				0.02	0.41	0.51	0.67	0.85	1.51
TKN as N	60	12	N/A				0.1	0.1	0.23	0.5	0.7	1.2
Total Phosphorus	58	0	N/A				0.08	0.11	0.13	0.16	0.19	0.38
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	31.9	1	1.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SOUTH RIV AT US 13 NR COOPER

Station #: B8470000

Hydrologic Unit Code: 03030006

Latitude: 35.15600

Longitude: -78.64013

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-68-12-(0.5)

Time period: 01/05/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	60	0	N/A				0.3	0.6	2.1	3.8	6.3	14.9
pH (SU)	60	0	<4.3	0	0		5.3	5.8	6	6.1	6.3	7.2
	60	0	>9	0	0		5.3	5.8	6	6.1	6.3	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				58	74	84	96	122	514
Water Temperature (°C)	60	0	>32	0	0		0.3	5.8	9.4	16.9	23.5	31.3
Other												
TSS (mg/L)	32	12	N/A				2	2	2.2	4.5	9.9	23
Turbidity (NTU)	28	0	>50	1	3.6		0.8	1	1.4	3.4	16.9	75.3
Nutrients (mg/L)												
NH3 as N	59	8	N/A				0.01	0.01	0.02	0.04	0.1	0.5
NO2 + NO3 as N	60	10	N/A				0.02	0.02	0.03	0.06	0.13	1.01
TKN as N	60	8	N/A				0.1	0.11	0.3	0.6	0.97	2
Total Phosphorus	57	8	N/A				0.02	0.02	0.03	0.07	0.12	0.24
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	113.4	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE COHARIE CRK AT SR 1414 MINNIE HALL RD NR SALEMBURG

Station #: B8490000

Hydrologic Unit Code: 03030006

Latitude: 35.05553

Longitude: -78.53095

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-68-1-17

Time period: 01/26/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	N/A				0.7	0.9	2.8	5.4	8.5	10.8	11.7
pH (SU)	22	0	<4.3	0	0		5.1	5.4	5.8	6.1	6.5	7.1	7.1
	22	0	>9	0	0		5.1	5.4	5.8	6.1	6.5	7.1	7.1
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				64	70	75	83	93	101	104
Water Temperature (°C)	23	0	>32	0	0		2.5	4.1	6.5	12.4	21.1	24.5	25.7
Other													
Hardness (mg/L)	14	0	N/A				17	18	20	25	36	60	84
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	8.5	12	12
Turbidity (NTU)	55	11	>50	0	0		1	1	1.2	1.9	4.1	8.8	32
Nutrients (mg/L)													
NH3 as N	55	36	N/A				0.02	0.02	0.02	0.02	0.02	0.08	0.15
NO2 + NO3 as N	55	24	N/A				0.02	0.02	0.02	0.02	0.16	0.6	2.1
TKN as N	55	0	N/A				0.36	0.41	0.52	0.73	0.95	1.4	2
Total Phosphorus	55	2	N/A				0.02	0.02	0.03	0.04	0.09	0.14	0.27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	83.7	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LITTLE COHARIE CRK AT SR 1240 NR ROSEBORO

Station #: B8545000

Hydrologic Unit Code: 03030006

Latitude: 34.92735

Longitude: -78.46568

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-68-1-17

Time period: 01/26/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	N/A				3.5	3.9	5.9	8	10.5	12.1	12.3
pH (SU)	22	0	<4.3	0	0		5.1	6	6.3	6.5	6.7	7.2	7.5
	22	0	>9	0	0		5.1	6	6.3	6.5	6.7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				76	76	80	91	98	112	123
Water Temperature (°C)	23	0	>32	0	0		4	4.8	7.7	13	22.7	25.5	27.2
Other													
Hardness (mg/L)	14	0	N/A				19	20	22	22	26	30	34
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	12	30
Turbidity (NTU)	57	1	>50	0	0		1	1.7	2.1	2.9	4.5	7.2	12
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	76	3	5.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: GREAT COHARIE CRK AT SR 1311 NR CLINTON

Station #: B8580000

Hydrologic Unit Code: 03030006

Latitude: 35.02483

Longitude: -78.37170

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-68-1

Time period: 01/26/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	N/A				0.1	0.4	1.4	4.8	8.4	10.2	10.7
pH (SU)	22	0	<4.3	0	0		5.1	5.8	5.9	6.2	6.5	6.9	7.2
	22	0	>9	0	0		5.1	5.8	5.9	6.2	6.5	6.9	7.2
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				84	90	96	104	119	120	121
Water Temperature (°C)	23	0	>32	0	0		3.7	4.3	6.5	13.5	22	25.1	27
Other													
Hardness (mg/L)	14	0	N/A				18	18	23	34	40	66	74
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	8.6	14.2	167.3	341
Turbidity (NTU)	56	7	>50	0	0		1	1	1.7	4	9.5	18	36
Nutrients (mg/L)													
NH3 as N	57	40	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.13
NO2 + NO3 as N	57	43	N/A				0.02	0.02	0.02	0.02	0.03	0.7	2.2
TKN as N	57	0	N/A				0.37	0.46	0.58	0.89	1.25	2.58	7.5
Total Phosphorus	57	7	N/A				0.02	0.02	0.03	0.06	0.11	0.49	1.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	73.6	3	5.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: GREAT COHARIE CRK AT SR 1214 NR BUTLER CROSSROADS
Station #: B8604000 **Hydrologic Unit Code:** 03030006
Latitude: 34.91824 **Longitude:** -78.38918 **Stream class:** C Sw
Agency: LCFRP **NC stream index:** 18-68-1

Time period: 01/05/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				2.9	4.4	5.3	6.5	9	11.2	16.8
pH (SU)	60	0	<4.3	0	0		5.8	6	6.3	6.5	6.7	7	7.2
	60	0	>9	0	0		5.8	6	6.3	6.5	6.7	7	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				89	106	126	168	242	367	559
Water Temperature (°C)	60	0	>32	0	0		0.1	6.1	9.9	17	24	26.1	29
Other													
TSS (mg/L)	59	24	N/A				1.3	2	2.7	3	4.4	9.5	55
Nutrients (mg/L)													
NH3 as N	59	4	N/A				0.01	0.01	0.02	0.04	0.07	0.11	0.19
NO2 + NO3 as N	60	0	N/A				0.03	0.04	0.08	0.22	0.57	1.34	2.97
TKN as N	60	6	N/A				0.1	0.11	0.3	0.6	0.8	1.1	1.7
Total Phosphorus	57	0	N/A				0.03	0.07	0.13	0.29	0.54	0.67	1.65
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	86.1	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE COHARIE CRK AT SR 1207 NR INGOLD

Station #: B8610001

Hydrologic Unit Code: 03030006

Latitude: 34.83473

Longitude: -78.37087

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-68-1-17

Time period: 01/05/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				4.8	6	6.6	8.5	10.1	12	14.1
pH (SU)	60	0	<4.3	0	0		5.1	5.8	6.1	6.5	6.7	6.8	7.1
	60	0	>9	0	0		5.1	5.8	6.1	6.5	6.7	6.8	7.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				70	79	87	95	101	110	166
Water Temperature (°C)	60	0	>32	0	0		1	6	9.5	16.9	23.2	26	27.5
Other													
TSS (mg/L)	32	16	N/A				2	2	2.1	3	4	7	10.1
Turbidity (NTU)	28	0	>50	0	0		1.3	1.7	2.3	3.2	3.9	9.3	26.3
Nutrients (mg/L)													
NH3 as N	57	7	N/A				0.01	0.01	0.02	0.03	0.05	0.07	0.1
NO2 + NO3 as N	60	1	N/A				0.02	0.12	0.2	0.3	0.45	0.93	1.75
TKN as N	60	7	N/A				0.1	0.1	0.3	0.5	0.7	0.9	1.2
Total Phosphorus	57	3	N/A				0.02	0.02	0.04	0.05	0.1	0.15	1.25
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	80.6	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SIX RUNS CRK AT SR 1960 NR TAYLORS BRIDGE

Station #: B8725000

Hydrologic Unit Code: 03030006

Latitude: 34.85200

Longitude: -78.24480

Stream class: C Sw ORW +

Agency: NCAMBNT

NC stream index: 18-68-2-(11.5)

Time period: 01/26/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	N/A				2.4	5.5	7.5	8.7	9.8	11.3	12.3
pH (SU)	22	0	<4.3	0	0		5.1	6	6.5	6.7	6.9	7.2	7.4
	22	0	>9	0	0		5.1	6	6.5	6.7	6.9	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				89	111	121	140	154	163	168
Water Temperature (°C)	23	0	>32	0	0		4.1	4.8	8.4	13.4	21.1	25.3	25.7
Other													
Hardness (mg/L)	14	0	N/A				32	32	39	42	50	54	54
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	7.3	15.5	29.8	291
Turbidity (NTU)	55	0	>50	0	0		2.4	3.1	4.1	5.2	8.2	15.4	37
Nutrients (mg/L)													
NH3 as N	56	4	N/A				0.02	0.02	0.03	0.05	0.07	0.1	0.21
NO2 + NO3 as N	56	0	N/A				0.07	0.34	0.5	0.76	1	1.33	2.5
TKN as N	56	0	N/A				0.44	0.56	0.61	0.73	0.95	1.1	1.5
Total Phosphorus	56	0	N/A				0.04	0.06	0.08	0.11	0.19	0.22	0.28

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
56	165.4	10	17.9	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SIX RUNS CRK AT SR 1003 NR INGOLD

Station #: B8740000

Hydrologic Unit Code: 03030006

Latitude: 34.79327

Longitude: -78.31125

Stream class: C Sw ORW+

Agency: LCFRP

NC stream index: 18-68-2-(11.5)

Time period: 01/05/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				4.1	6	6.7	8.6	10	11.9	13.8
pH (SU)	59	0	<4.3	0	0		5.6	5.9	6.2	6.6	6.9	7.1	7.3
	59	0	>9	0	0		5.6	5.9	6.2	6.6	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				95	112	128	136	150	157	168
Water Temperature (°C)	59	0	>32	0	0		1.6	6.3	9.5	16.8	23.3	25.9	27.7
Other													
TSS (mg/L)	31	12	N/A				2	2	2	2.7	5	8.6	15.4
Turbidity (NTU)	28	0	>50	0	0		1.8	2.6	3.3	4.4	6.3	8.1	12
Nutrients (mg/L)													
NH3 as N	55	3	N/A				0.01	0.02	0.02	0.04	0.06	0.09	0.13
NO2 + NO3 as N	59	0	N/A				0.03	0.23	0.54	0.8	1.07	1.35	2.39
TKN as N	59	8	N/A				0.1	0.1	0.3	0.5	0.7	0.8	1.1
Total Phosphorus	56	0	N/A				0.03	0.05	0.07	0.12	0.15	0.17	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	114.9	4	6.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BLACK RIV AT NC 411 NR TOMAHAWK

Station #: B8750000

Hydrologic Unit Code: 03030006

Latitude: 34.75440

Longitude: -78.28910

Stream class: C Sw ORW +

Agency: NCAMBNT

NC stream index: 18-68

Time period: 01/26/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	N/A				4.8	4.9	6.7	8.6	9.4	11.8	12.5
pH (SU)	22	0	<4.3	0	0		5.2	5.8	6.4	6.7	7	7.3	7.3
	22	0	>9	0	0		5.2	5.8	6.4	6.7	7	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				77	83	98	113	127	150	173
Water Temperature (°C)	23	0	>32	0	0		3.9	4.7	8.6	13.3	22.3	26.3	26.8
Other													
Hardness (mg/L)	13	0	N/A				22	22	25	26	29	37	40
TSS (mg/L)	19	16	N/A				6.2	6.2	6.2	6.2	6.2	40	51
Turbidity (NTU)	54	1	>50	0	0		1	2	3	4.1	6.4	8.3	14
Nutrients (mg/L)													
NH3 as N	55	13	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.12
NO2 + NO3 as N	55	0	N/A				0.03	0.2	0.46	0.86	1.3	2.14	3.2
TKN as N	55	0	N/A				0.4	0.48	0.56	0.7	0.89	1.1	1.5
Total Phosphorus	55	0	N/A				0.02	0.03	0.05	0.08	0.14	0.18	0.32
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	101.2	6	10.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SOUTH RIV AT SR 1503 NR PARKERSBURG

Station #: B8919000

Hydrologic Unit Code: 03030006

Latitude: 34.81218

Longitude: -78.45684

Stream class: C Sw ORW +

Agency: NCAMBNT

NC stream index: 18-68-12-(8.5)

Time period: 01/05/2009 to 11/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	26	0	N/A				2.6	3.9	5.3	7	9.9	11.7	14
pH (SU)	26	0	<4.3	0	0		4.4	5	5.2	5.7	6	6.5	6.8
	26	0	>9	0	0		4.4	5	5.2	5.7	6	6.5	6.8
Spec. conductance (umhos/cm at 25°C)	26	0	N/A				51	56	63	71	78	84	91
Water Temperature (°C)	26	0	>32	0	0		1.3	4.7	7.5	15.3	22	26	27
Other													
Hardness (mg/L)	13	0	N/A				14	15	16	18	26	37	42
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	11.3	12	12
Turbidity (NTU)	59	2	>50	0	0		1	1.3	1.7	3.3	4.6	5.9	11
Nutrients (mg/L)													
NH3 as N	59	29	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.12
NO2 + NO3 as N	59	3	N/A				0.02	0.03	0.06	0.09	0.16	0.23	0.54
TKN as N	59	0	N/A				0.37	0.51	0.63	0.78	1	1.2	1.7
Total Phosphorus	59	4	N/A				0.02	0.02	0.02	0.05	0.07	0.09	0.11
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	71.3	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SOUTH RIV AT SR 1007 ENNIS BRIDGE RD NR KERR
Station #: B8920000 **Hydrologic Unit Code:** 03030006
Latitude: 34.64022 **Longitude:** -78.31158 **Stream class:** C Sw ORW +
Agency: LCFRP **NC stream index:** 18-68-12-(8.5)
Time period: 03/27/2013 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	10	0	N/A				3.2	3.4	5.9	7.2	8.5	10.3
pH (SU)	10	0	<4.3	1	10		3.9	4	5.5	6	6.2	6.6
	10	0	>9	0	0		3.9	4	5.5	6	6.2	6.6
Spec. conductance (umhos/cm at 25°C)	10	0	N/A				62	63	71	78	82	85
Water Temperature (°C)	10	0	>32	0	0		7.8	7.9	12.9	19.6	23.6	25
Other												
Turbidity (NTU)	10	0	>50	0	0		1.7	1.7	2.2	3	4.4	21.2
Nutrients (mg/L)												
NH3 as N	10	0	N/A				0.02	0.02	0.04	0.05	0.09	0.09
NO2 + NO3 as N	10	2	N/A				0.02	0.02	0.06	0.16	0.25	0.35
TKN as N	10	5	N/A				0.1	0.1	0.1	0.1	0.53	0.69
Total Phosphorus	10	1	N/A				0.02	0.02	0.04	0.05	0.08	0.22
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
10	156.2	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: COLLY CRK AT NC 53 AT COLLY

Station #: B8981000

Hydrologic Unit Code: 03030006

Latitude: 34.46411

Longitude: -78.25692

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-68-17

Time period: 01/08/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	N/A				3.2	4.1	5.1	6.2	8	10	11.1
pH (SU)	51	4	<4.3	47	92.2	> 99.9	3.3	3.6	3.8	4	4	4.2	5.3
	51	4	>9	0	0		3.3	3.6	3.8	4	4	4.2	5.3
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				56	68	71	74	83	101	113
Water Temperature (°C)	56	0	>32	0	0		4	5.1	10.2	15.3	21.6	24	26.8
Other													
TSS (mg/L)	28	22	N/A				2	2	2	2.7	3	3	13
Turbidity (NTU)	28	0	>50	0	0		0.8	0.8	1.3	1.5	2.3	2.6	3.8
Nutrients (mg/L)													
NH3 as N	55	6	N/A				0.01	0.01	0.01	0.04	0.09	0.15	0.3
NO2 + NO3 as N	56	25	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.82
TKN as N	56	2	N/A				0.1	0.3	0.53	0.7	0.97	1.13	1.8
Total Phosphorus	55	21	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	47.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BLACK RIV AT NC 210 AT STILL BLUFF

Station #: B9000000

Hydrologic Unit Code: 03030006

Latitude: 34.43124

Longitude: -78.14411

Stream class: C Sw ORW+

Agency: LCFRP

NC stream index: 18-68

Time period: 01/08/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				2.9	4.1	4.7	6.1	8.7	10.9	11.7
pH (SU)	60	0	<4.3	0	0		4.8	5.7	5.9	6.2	6.4	6.6	6.8
	60	0	>9	0	0		4.8	5.7	5.9	6.2	6.4	6.6	6.8
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				66	79	86	96	120	140	154
Water Temperature (°C)	60	0	>32	0	0		5.2	6.7	11.5	18.9	24.8	29.2	30.8
Other													
TSS (mg/L)	60	50	N/A				2	2	2.1	2.7	3	3.3	5.2
Nutrients (mg/L)													
NH3 as N	58	6	N/A				0.01	0.01	0.01	0.03	0.04	0.08	0.18
NO2 + NO3 as N	60	5	N/A				0.02	0.04	0.14	0.22	0.27	0.43	0.98
TKN as N	60	4	N/A				0.1	0.2	0.4	0.5	0.8	0.99	1.4
Total Phosphorus	57	1	N/A				0.02	0.03	0.04	0.1	0.12	0.14	0.36
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	64.3	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BLACK RIV AT RACCOON ISLAND NR HUGGINS

Station #: B9013000

Hydrologic Unit Code: 03030006

Latitude: 34.37201

Longitude: -78.07212

Stream class: C Sw ORW +

Agency: NCAMBNT

NC stream index: 18-68

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	57	0	N/A				1	3.5	4	5.4	8.1	11.5
pH (SU)	56	0	<4.3	0	0		4.8	5.4	5.8	6.2	6.6	7
	56	0	>9	0	0		4.8	5.4	5.8	6.2	6.6	7
Salinity (ppt)	57	0	N/A				0.02	0.02	0.03	0.04	0.06	0.14
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				61	75	88	107	150	281
Water Temperature (°C)	58	0	>32	0	0		4.6	8.6	12.6	20	25.5	31.2
Other												
Chlorophyll a (ug/L)	7	1	>40	0	0		1	1	1	2	9	27
Hardness (mg/L)	15	0	N/A				19	20	22	24	27	33
TSS (mg/L)	21	19	N/A				6.2	6.2	6.2	6.2	6.2	12
Turbidity (NTU)	57	0	>50	0	0		1.5	2.9	3.5	4.7	6.5	17
Nutrients (mg/L)												
NH3 as N	57	8	N/A				0.02	0.02	0.02	0.03	0.04	0.09
NO2 + NO3 as N	57	0	N/A				0.04	0.13	0.2	0.3	0.42	0.9
TKN as N	57	0	N/A				0.29	0.51	0.6	0.73	0.87	1.2
Total Phosphorus	57	0	N/A				0.02	0.06	0.07	0.11	0.12	0.17
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
56	43.3	1	1.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV DNS HALE PT LANDING NR PHOENIX

Station #: B9020000

Hydrologic Unit Code: 03030005

Latitude: 34.31808

Longitude: -78.02639

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-(63)

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	N/A				3	3.8	4.4	5.9	8.7	10.5	11.6
pH (SU)	55	0	<4.3	0	0		5.5	6	6.4	6.6	6.9	7.1	7.2
	55	0	>9	0	0		5.5	6	6.4	6.6	6.9	7.1	7.2
Salinity (ppt)	56	0	N/A				0.03	0.04	0.06	0.08	0.1	0.14	0.27
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				88	103	136	174	225	307	1587
Water Temperature (°C)	57	0	>32	0	0		4.8	8.7	12.3	20	26.4	30.1	31.3
Other													
Chlorophyll a (ug/L)	6	1	>40	0	0		1	1	2	5	16	20	20
Hardness (mg/L)	15	0	N/A				22	24	26	30	34	36	37
TSS (mg/L)	21	10	N/A				6.2	6.2	6.2	8	12	17.6	24
Turbidity (NTU)	55	0	>50	0	0		3.3	6.2	7.8	9.1	12	15.4	21
Nutrients (mg/L)													
NH3 as N	57	1	N/A				0.02	0.03	0.05	0.06	0.09	0.1	0.12
NO2 + NO3 as N	57	0	N/A				0.18	0.38	0.5	0.62	0.81	0.93	1.2
TKN as N	57	0	N/A				0.46	0.54	0.61	0.7	0.77	0.84	0.95
Total Phosphorus	57	0	N/A				0.06	0.09	0.12	0.15	0.18	0.2	0.22

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
56	29.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV UPS INDIAN CREEK NR PHOENIX
Station #: B9030000 **Hydrologic Unit Code:** 03030005
Latitude: 34.30278 **Longitude:** -78.01406 **Stream class:** C Sw
Agency: LCFRP **NC stream index:** 18-(63)

Time period: 01/07/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	132	0	N/A				2.9	3.8	4.3	5.4	7.8	11.9
pH (SU)	134	0	<4.3	0	0		5.8	6.5	6.7	6.8	6.9	7.3
	134	0	>9	0	0		5.8	6.5	6.7	6.8	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	134	0	N/A				79	110	140	187	249	8149
Water Temperature (°C)	134	0	>32	0	0		3.5	11.3	16.4	24.8	28.8	32
Other												
TSS (mg/L)	60	0	N/A				3	5	6	9	12.2	32
Nutrients (mg/L)												
NH3 as N	58	0	N/A				0.01	0.03	0.04	0.06	0.09	0.16
NO2 + NO3 as N	60	1	N/A				0.02	0.31	0.47	0.6	0.77	1.33
TKN as N	60	10	N/A				0.1	0.1	0.3	0.5	0.7	1.9
Total Phosphorus	58	0	N/A				0.06	0.1	0.12	0.14	0.18	0.22
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	30.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT NAVASSA

Station #: B9050000

Hydrologic Unit Code: 03030005

Latitude: 34.26118

Longitude: -77.98907

Stream class: SC

Agency: NCAMBNT

NC stream index: 18-(71)

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<5	22	39.3	> 99.9	2.8	3.5	4.3	5.8	8.3	10.5	11.8
pH (SU)	55	0	<6.8	24	43.6	> 99.9	5.5	6.2	6.5	6.8	7	7.1	7.3
Salinity (ppt)	55	0	>8.5	0	0		5.5	6.2	6.5	6.8	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				0.03	0.05	0.08	0.65	6.63	8.36	16.49
Water Temperature (°C)	56	0	N/A				90	123	173	1130	11613	14424	26952
Water Temperature (°C)	57	0	>32	0	0		5.8	8.7	12.3	20.1	26.1	29.7	31.2
Other													
Chlorophyll a (ug/L)	5	1	>40	0	0		1	1	2	5	9	10	10
TSS (mg/L)	21	3	N/A				7	7.3	9.1	12	20	36	40
Turbidity (NTU)	57	0	>25	5	8.8		6.2	7.3	9.9	13	17.5	24.6	38
Nutrients (mg/L)													
NH3 as N	5	1	N/A				0.02	0.02	0.02	0.07	0.07	0.07	0.07
NO2 + NO3 as N	5	0	N/A				0.17	0.17	0.29	0.44	0.57	0.66	0.66
TKN as N	5	0	N/A				0.44	0.44	0.5	0.68	0.82	0.85	0.85
Total Phosphorus	5	0	N/A				0.08	0.08	0.09	0.13	0.16	0.16	0.16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	31.2	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV DNS RR BRIDGE AT NAVASSA

Station #: B9050025

Hydrologic Unit Code: 03030005

Latitude: 34.25943

Longitude: -77.98767

Stream class: SC

Agency: LCFRP

NC stream index: 18-(71)

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	131	0	<5	64	48.9	> 99.9	2.9	3.7	4.1	5.2	7.7	10.1	12.4
pH (SU)	133	0	<6.8	34	25.6	> 99.9	5.8	6.7	6.7	6.9	7.1	7.3	7.9
	133	0	>8.5	0	0		5.8	6.7	6.7	6.9	7.1	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	133	0	N/A				73	119	165	2045	9504	15594	27372
Water Temperature (°C)	133	0	>32	0	0		3.2	10.5	16	25.2	28.3	30.2	31.7
Other													
TSS (mg/L)	60	0	N/A				6	7.1	12	16.2	23.3	30.9	77.6
Turbidity (NTU)	60	0	>25	5	8.3		4.4	7.6	9.4	11.8	16.3	22.9	74.1
Nutrients (mg/L)													
NH3 as N	59	3	N/A				0.01	0.02	0.04	0.06	0.09	0.12	0.19
NO2 + NO3 as N	60	0	N/A				0.05	0.32	0.43	0.56	0.72	0.8	1.14
TKN as N	60	5	N/A				0.1	0.1	0.3	0.5	0.7	0.89	1.2
Total Phosphorus	58	0	N/A				0.07	0.08	0.11	0.14	0.18	0.25	0.31
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	46.7	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT HORSESHOE BEND NR WILMINGTON

Station #: B9050100

Hydrologic Unit Code: 03030005

Latitude: 34.24372

Longitude: -77.96980

Stream class: SC

Agency: LCFRP

NC stream index: 18-(71)

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	132	0	<5	59	44.7	>99.9	2.9	3.5	4.2	5.4	7.9	10	12.1
pH (SU)	134	0	<6.8	24	17.9	99.6	5.9	6.7	6.8	7	7.2	7.4	8
Spec. conductance (umhos/cm at 25°C)	134	0	>8.5	0	0		5.9	6.7	6.8	7	7.2	7.4	8
Water Temperature (°C)	134	0	>32	1	0.7		3.3	10.6	16.4	25.5	28.5	30.2	32.4
Other													
TSS (mg/L)	60	0	N/A				6	7.1	9.9	14.1	18.3	26.5	44
Nutrients (mg/L)													
NH3 as N	59	4	N/A				0.01	0.01	0.04	0.07	0.09	0.12	0.17
NO2 + NO3 as N	60	0	N/A				0.05	0.27	0.38	0.54	0.66	0.79	1.29
TKN as N	60	6	N/A				0.1	0.2	0.4	0.5	0.6	0.8	1.3
Total Phosphorus	58	0	N/A				0.06	0.08	0.11	0.12	0.15	0.17	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	42.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT SR 1937 NR MT OLIVE
Station #: B9080000 **Hydrologic Unit Code:** 03030007
Latitude: 35.19140 **Longitude:** -78.01759 **Stream class:** C Sw
Agency: NCAMBNT **NC stream index:** 18-74-(1)

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	N/A				0.3	1.2	3.2	6	9.1	12	13.8
pH (SU)	59	0	<4.3	0	0		5.9	6.1	6.3	6.5	6.7	6.8	7.1
	59	0	>9	0	0		5.9	6.1	6.3	6.5	6.7	6.8	7.1
Salinity (ppt)	58	0	N/A				0.11	0.24	0.36	0.75	1.29	1.77	2.48
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				231	467	688	1426	2410	3142	4530
Water Temperature (°C)	60	0	>32	0	0		4.5	9	13.6	19	25.7	28.2	30.4
Other													
Chloride (mg/L)	59	0	>230	40	67.8	> 99.9	22	110	190	370	690	920	1300
Chlorophyll a (ug/L)	2	0	>40	0	0		5	5	5	14	23	23	23
Fluoride (mg/L)	58	54	>1.8	0	0		0.2	0.4	0.4	4	10	20	40
Sulfate (mg/L)	59	25	N/A				12	15	20	28	50	100	650
Nutrients (mg/L)													
NH3 as N	2	0	N/A				0.03	0.03	0.03	0.05	0.07	0.07	0.07
NO2 + NO3 as N	2	0	N/A				1.9	1.9	1.9	2.8	3.7	3.7	3.7
TKN as N	2	0	N/A				0.69	0.69	0.69	0.72	0.75	0.75	0.75
Total Phosphorus	2	0	N/A				0.19	0.19	0.19	0.34	0.49	0.49	0.49
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
1	1200	1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT NC 403 NR WILLIAMS

Station #: B9090000

Hydrologic Unit Code: 03030007

Latitude: 35.17839

Longitude: -77.98072

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-(1)

Time period: 01/08/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	60	0	N/A				0.3	1	1.7	4	7.3	11.9
pH (SU)	60	0	<4.3	0	0		5.9	6.2	6.4	6.5	6.6	7.1
	60	0	>9	0	0		5.9	6.2	6.4	6.5	6.6	7.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				132	294	452	622	749	2088
Water Temperature (°C)	60	0	>32	0	0		3.1	7	10.2	16.9	24.6	27.7
Other												
TSS (mg/L)	60	31	N/A				2	2	2.7	2.8	5.6	21.6
Nutrients (mg/L)												
NH3 as N	58	1	N/A				0.01	0.02	0.04	0.08	0.15	0.46
NO2 + NO3 as N	60	5	N/A				0.02	0.02	0.05	0.25	0.8	3.52
TKN as N	60	5	N/A				0.1	0.2	0.33	0.55	0.8	1.7
Total Phosphorus	58	1	N/A				0.02	0.07	0.09	0.15	0.32	0.84
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	111.3	10	16.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT NC 403 NR WILLIAMS

Station #: B9090000

Hydrologic Unit Code: 03030007

Latitude: 35.17839

Longitude: -77.98072

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-74-(1)

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	N/A				0	0.1	0.8	3.9	7.5	9.7	11.6
pH (SU)	58	0	<4.3	0	0		5.6	5.8	6	6.2	6.4	6.6	6.9
	58	0	>9	0	0		5.6	5.8	6	6.2	6.4	6.6	6.9
Salinity (ppt)	57	0	N/A				0.05	0.13	0.27	0.33	0.44	0.57	0.64
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				121	274	538	648	862	1090	1201
Water Temperature (°C)	59	0	>32	0	0		3.5	9.4	12.9	18.2	25.5	28.4	30.2
Other													
Hardness (mg/L)	14	0	N/A				32	32	35	46	53	55	55
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.9	12	12
Turbidity (NTU)	59	0	>50	0	0		1	1.6	2	4.5	8.2	15	30
Nutrients (mg/L)													
NH3 as N	59	3	N/A				0.02	0.02	0.03	0.06	0.16	0.28	0.43
NO2 + NO3 as N	59	10	N/A				0.02	0.02	0.03	0.26	0.93	1.5	3.4
TKN as N	59	0	N/A				0.46	0.54	0.63	0.83	1.1	1.3	1.6
Total Phosphorus	59	0	N/A				0.03	0.07	0.09	0.16	0.37	0.54	1.7
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	104.7	8	13.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: PANTHER CRK NR FAISON

Station #: B9130000

Hydrologic Unit Code: 03030007

Latitude: 35.13445

Longitude: -78.13630

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-19-3

Time period: 01/08/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				1.2	4.6	6.4	8	9.1	10.4	14.5
pH (SU)	59	0	<4.3	0	0		6.2	6.5	6.6	6.8	6.9	7.2	8.7
	59	0	>9	0	0		6.2	6.5	6.6	6.8	6.9	7.2	8.7
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				313	552	1014	1870	3776	6963	12331
Water Temperature (°C)	59	0	>32	1	1.7		3.7	6.2	10.9	17.6	25.5	28	32.1
Other													
TSS (mg/L)	59	0	N/A				2	3.9	5	7.6	16	29.4	73
Nutrients (mg/L)													
NH3 as N	57	1	N/A				0.01	0.05	0.09	0.15	0.26	0.58	4.67
NO2 + NO3 as N	59	5	N/A				0.02	0.02	0.05	0.09	0.54	1.7	3.46
TKN as N	59	2	N/A				0.1	0.2	0.5	0.8	1.1	2.2	7.2
Total Phosphorus	57	0	N/A				0.07	0.13	0.16	0.23	0.34	0.59	2.95
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	384	28	47.5	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: GOSHEN SWAMP AT SR 1004 NR WESTBROOK CROSSROAD

Station #: B9190500

Hydrologic Unit Code: 03030007

Latitude: 35.05350

Longitude: -77.94740

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-74-19

Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	N/A				0.2	2.1	3.1	5	8.4	11.1	13.1
pH (SU)	57	0	<4.3	0	0		5.6	5.9	6	6.2	6.5	6.7	6.9
	57	0	>9	0	0		5.6	5.9	6	6.2	6.5	6.7	6.9
Salinity (ppt)	56	0	N/A				0.03	0.06	0.07	0.09	0.13	0.18	0.33
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				87	145	168	202	265	367	651
Water Temperature (°C)	58	0	>32	0	0		0.6	8	12.1	17.2	25	27.5	29.7
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		4	4	4	4	4	4	4
Hardness (mg/L)	14	0	N/A				27	28	31	43	54	68	76
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	11.6	12
Turbidity (NTU)	59	2	>50	0	0		1	1.8	2.9	5.3	11	26	50
Nutrients (mg/L)													
NH3 as N	59	28	N/A				0.02	0.02	0.02	0.02	0.07	0.09	0.28
NO2 + NO3 as N	59	21	N/A				0.02	0.02	0.02	0.02	0.06	0.29	2.1
TKN as N	59	0	N/A				0.51	0.54	0.65	0.84	1	1.2	2.3
Total Phosphorus	59	0	N/A				0.02	0.04	0.07	0.13	0.2	0.29	0.93
Metals (ug/L)													
Iron, total (Fe)	3	0	>1000	3	100		1800	1800	1800	3200	4200	4200	4200
Manganese, total (Mn)	1	0	N/A				310	310	310	310	310	310	310
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	94.3	3	5.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: GOSHEN SWAMP AT NC 11 AND NC 903 NR KORNEGAY

Station #: B9191000

Hydrologic Unit Code: 03030007

Latitude: 35.02808

Longitude: -77.85160

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-19

Time period: 01/08/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	60	0	N/A				0.5	1.6	2.8	4.9	8.8	13.7
pH (SU)	60	0	<4.3	0	0		6.2	6.4	6.5	6.6	6.8	7.3
	60	0	>9	0	0		6.2	6.4	6.5	6.6	6.8	7.3
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				100	135	163	186	223	341
Water Temperature (°C)	60	0	>32	0	0		2.8	6.7	10.5	17.2	24.5	30.1
Other												
TSS (mg/L)	32	12	N/A				2	2	2	3	11.2	157
Turbidity (NTU)	28	0	>50	0	0		1.2	1.5	2.3	2.8	3.6	8.6
Nutrients (mg/L)												
NH3 as N	56	7	N/A				0.01	0.01	0.02	0.03	0.07	0.25
NO2 + NO3 as N	60	27	N/A				0.01	0.02	0.02	0.02	0.04	2.02
TKN as N	59	4	N/A				0.1	0.2	0.4	0.6	0.9	2.3
Total Phosphorus	58	0	N/A				0.04	0.04	0.06	0.11	0.18	0.82
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	98.6	7	11.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT SR 1700 NR SARECTA

Station #: B9191500

Hydrologic Unit Code: 03030007

Latitude: 34.98008

Longitude: -77.86221

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-1

Time period: 01/08/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				4	4.9	5.5	6.8	8.8	10.6	13
pH (SU)	60	0	<4.3	0	0		6	6.3	6.5	6.7	6.9	7	7.4
	60	0	>9	0	0		6	6.3	6.5	6.7	6.9	7	7.4
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				112	132	167	190	224	288	339
Water Temperature (°C)	60	0	>32	0	0		1.8	5.8	10.5	17.2	23.3	26.1	28.3
Other													
TSS (mg/L)	60	22	N/A				2	2.1	2.7	3	5.4	8.4	16
Nutrients (mg/L)													
NH3 as N	57	3	N/A				0.01	0.01	0.03	0.04	0.09	0.12	0.62
NO2 + NO3 as N	60	1	N/A				0.02	0.08	0.16	0.27	0.5	1.09	2.55
TKN as N	60	3	N/A				0.1	0.2	0.4	0.7	0.9	1.2	1.6
Total Phosphorus	58	1	N/A				0.02	0.05	0.07	0.12	0.17	0.21	0.51
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	177	10	16.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT SR 1961 AT HALLSVILLE

Station #: B9196000

Hydrologic Unit Code: 03030007

Latitude: 34.90589

Longitude: -77.84088

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-74-(1)

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	N/A				0.1	6	6.8	7.8	9.2	10.7	12.7
pH (SU)	59	0	<4.3	0	0		5.6	5.9	6.2	6.4	6.6	6.8	6.9
	59	0	>9	0	0		5.6	5.9	6.2	6.4	6.6	6.8	6.9
Salinity (ppt)	58	0	N/A				0.04	0.05	0.06	0.08	0.09	0.12	0.21
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				91	120	142	176	206	257	420
Water Temperature (°C)	60	0	>32	0	0		0.8	8.1	11.4	17.1	25.4	28.2	30.6
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		1	1	1	1	1	1	1
Hardness (mg/L)	14	0	N/A				26	27	30	36	41	43	43
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	7	12	14
Turbidity (NTU)	58	0	>50	0	0		1.6	2.3	3.2	4.6	6.5	11	37
Nutrients (mg/L)													
NH3 as N	58	12	N/A				0.02	0.02	0.02	0.03	0.04	0.12	0.19
NO2 + NO3 as N	58	1	N/A				0.02	0.13	0.2	0.28	0.45	0.88	2
TKN as N	58	0	N/A				0.52	0.58	0.67	0.81	0.97	1.2	3.4
Total Phosphorus	58	0	N/A				0.03	0.05	0.08	0.13	0.17	0.2	0.82
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	131	5	8.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: ROCKFISH CRK AT US 117 NR WALLACE

Station #: B9430000

Hydrologic Unit Code: 03030007

Latitude: 34.71684

Longitude: -77.97949

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-29

Time period: 01/08/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				3.6	5.1	5.9	7.5	9.3	11	12.9
pH (SU)	60	0	<4.3	0	0		6	6.5	6.6	7	7.1	7.2	7.5
	60	0	>9	0	0		6	6.5	6.6	7	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				71	100	125	146	178	259	380
Water Temperature (°C)	60	0	>32	0	0		2.4	6.7	11.9	16.5	23.2	25.8	27.7
Other													
TSS (mg/L)	60	23	N/A				2	2.6	2.7	3	6	21.1	39.7
Nutrients (mg/L)													
NH3 as N	59	0	N/A				0.01	0.02	0.04	0.06	0.1	0.15	0.91
NO2 + NO3 as N	60	1	N/A				0.02	0.38	0.56	1.18	1.77	2.87	7.45
TKN as N	60	2	N/A				0.1	0.3	0.5	0.7	0.97	1.29	1.6
Total Phosphorus	58	0	N/A				0.09	0.12	0.17	0.3	0.5	0.65	0.81
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	220.3	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LITTLE ROCKFISH CRK AT NC 11 NR WALLACE

Station #: B9460000

Hydrologic Unit Code: 03030007

Latitude: 34.72244

Longitude: -77.98141

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-29-6

Time period: 01/08/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	N/A				6.1	7.3	7.9	9.8	11.3	12.2	13.2
pH (SU)	58	0	<4.3	0	0		6.1	6.7	6.9	7.3	7.5	7.8	8.3
	58	0	>9	0	0		6.1	6.7	6.9	7.3	7.5	7.8	8.3
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				52	98	119	138	170	202	287
Water Temperature (°C)	58	0	>32	0	0		3.5	6.3	10.6	17.6	24.6	26.8	28.9
Other													
TSS (mg/L)	58	25	N/A				2	2.6	2.8	3	9	18.5	151
Turbidity (NTU)	58	0	>50	1	1.7		1.2	2.6	3.4	4.5	6.6	13.6	85.2
Nutrients (mg/L)													
NH3 as N	56	2	N/A				0.01	0.01	0.03	0.07	0.11	0.16	0.48
NO2 + NO3 as N	58	4	N/A				0.02	0.03	0.05	0.14	0.3	1.05	10.7
TKN as N	58	4	N/A				0.1	0.2	0.3	0.5	0.72	1	1.4
Total Phosphorus	57	1	N/A				0.02	0.03	0.04	0.07	0.1	0.13	0.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	204.2	16	27.6	89.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROCKFISH CRK AT I 40 AT WALLACE

Station #: B9470000

Hydrologic Unit Code: 03030007

Latitude: 34.71913

Longitude: -77.94622

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-74-29

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	57	0	N/A				0.5	5.4	6.3	7.4	9.1	12.4
pH (SU)	58	0	<4.3	0	0		5.7	6	6.2	6.5	6.7	7.1
	58	0	>9	0	0		5.7	6	6.2	6.5	6.7	7.1
Salinity (ppt)	57	0	N/A				0.02	0.04	0.05	0.07	0.11	0.6
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				71	106	124	155	220	407
Water Temperature (°C)	59	0	>32	0	0		2	7.9	11.8	16.9	24.2	28.3
Other												
Hardness (mg/L)	14	0	N/A				27	28	33	44	62	81
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.4	12
Turbidity (NTU)	59	0	>50	1	1.7		1.8	2.8	3.4	5.7	8.5	65
Nutrients (mg/L)												
NH3 as N	59	6	N/A				0.02	0.02	0.02	0.04	0.06	0.26
NO2 + NO3 as N	59	0	N/A				0.2	0.3	0.74	1.2	2.3	7.6
TKN as N	59	0	N/A				0.52	0.66	0.81	0.93	1.1	1.8
Total Phosphorus	59	0	N/A				0.07	0.12	0.18	0.32	0.58	1
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
59	155	6	10.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT SR 1318 NR WATHA

Station #: B9480000

Hydrologic Unit Code: 03030007

Latitude: 34.64594

Longitude: -77.87246

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-74-(29.5)

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				0.1	4.6	5.1	7.2	8.8	10.8	11.6
pH (SU)	60	0	<4.3	0	0		5.5	5.8	6.1	6.3	6.6	6.6	6.7
	60	0	>9	0	0		5.5	5.8	6.1	6.3	6.6	6.6	6.7
Salinity (ppt)	59	0	N/A				0.03	0.04	0.06	0.07	0.08	0.1	0.13
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				81	109	134	158	183	207	278
Water Temperature (°C)	61	0	>32	0	0		2	7.5	11.8	18	25.2	29.7	30.7
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		37	37	37	37	37	37	37
Hardness (mg/L)	14	0	N/A				25	28	33	40	45	53	55
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	7.1	11.7	12
Turbidity (NTU)	60	0	>50	0	0		2.2	3.1	3.8	5.1	6.9	9	18
Nutrients (mg/L)													
NH3 as N	60	8	N/A				0.02	0.02	0.02	0.04	0.07	0.1	0.12
NO2 + NO3 as N	60	3	N/A				0.02	0.19	0.29	0.45	0.62	0.97	1.6
TKN as N	60	0	N/A				0.56	0.61	0.68	0.78	0.91	1.1	2.5
Total Phosphorus	60	0	N/A				0.05	0.06	0.11	0.16	0.2	0.25	0.58
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	52.7	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: ANGOLA CRK AT NC 53 NR MAPLE HILL

Station #: B9490000

Hydrologic Unit Code: 03030007

Latitude: 34.65617

Longitude: -77.73508

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-33-3

Time period: 01/08/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				0.3	1.3	3.4	5	8	10.5	11.6
pH (SU)	60	0	<4.3	0	0		4.4	5.1	5.4	5.9	6.3	6.5	7.2
	60	0	>9	0	0		4.4	5.1	5.4	5.9	6.3	6.5	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				75	86	94	111	136	156	184
Water Temperature (°C)	60	0	>32	0	0		4.6	8.4	10.8	17	23.5	25.7	27.6
Other													
TSS (mg/L)	32	7	N/A				2	2	2.7	4	5.6	7.8	37.2
Turbidity (NTU)	28	0	>50	0	0		2.3	3.2	3.5	5	7.8	10.3	11
Nutrients (mg/L)													
NH3 as N	58	2	N/A				0.01	0.01	0.04	0.08	0.16	0.26	3.38
NO2 + NO3 as N	60	9	N/A				0.02	0.02	0.05	0.12	0.25	0.59	1.84
TKN as N	60	0	N/A				0.3	0.6	0.8	1	1.2	1.5	6
Total Phosphorus	58	0	N/A				0.04	0.09	0.12	0.16	0.21	0.31	0.71
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	116.3	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BURGAW CRK AT SR 1345 WRIGHT ST AT BURGAW
Station #: B9500000 **Hydrologic Unit Code:** 03030007
Latitude: 34.56334 **Longitude:** -77.93481 **Stream class:** C Sw
Agency: LCFRP **NC stream index:** 18-74-39

Time period: 01/08/2009 to 12/11/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	48	0	N/A				0.2	0.4	0.8	1.9	6.8	8.9	11.9
pH (SU)	48	0	<4.3	0	0		5.2	5.9	6.3	6.7	6.9	7.2	7.5
	48	0	>9	0	0		5.2	5.9	6.3	6.7	6.9	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				68	123	164	234	270	315	398
Water Temperature (°C)	48	0	>32	0	0		3.3	8.2	10.7	15.8	22.6	24.1	25.2
Other													
Chlorophyll a (ug/L)	18	0	>40	2	11.1	45	1	1	1	5	24	49	100
TSS (mg/L)	48	0	N/A				3	4	5.5	7	10	19.9	118
Turbidity (NTU)	48	0	>50	1	2.1		4.6	5.4	6.6	8.9	11	14.5	54
Nutrients (mg/L)													
NH3 as N	46	0	N/A				0.01	0.03	0.05	0.13	0.23	0.55	0.93
NO2 + NO3 as N	48	2	N/A				0.01	0.02	0.07	0.13	0.3	0.64	0.85
TKN as N	48	2	N/A				0.1	0.2	0.5	0.7	1	1.21	2.8
Total Phosphorus	46	0	N/A				0.03	0.06	0.1	0.2	0.3	0.4	0.86
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
48	309.2	18	37.5	99.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BURGAW CRK AT US 117 AT BURGAW

Station #: B9520000

Hydrologic Unit Code: 03030007

Latitude: 34.56375

Longitude: -77.92202

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-39

Time period: 01/08/2009 to 12/11/2012

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	48	0	N/A				1.6	3	4.6	6	8.8	12
pH (SU)	48	0	<4.3	0	0		6	6.3	6.8	7.4	7.6	7.7
	48	0	>9	0	0		6	6.3	6.8	7.4	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				107	205	278	456	865	1290
Water Temperature (°C)	48	0	>32	0	0		3.7	7.1	11	17.9	22.8	27.2
Other												
Chlorophyll a (ug/L)	18	0	>40	0	0		1	1	1	2	4	29
TSS (mg/L)	48	0	N/A				2.7	3.3	5	6.2	11.1	110
Turbidity (NTU)	48	0	>50	1	2.1		3.6	5.7	7	8.8	12.4	119
Nutrients (mg/L)												
NH3 as N	46	0	N/A				0.01	0.03	0.06	0.1	0.15	0.29
NO2 + NO3 as N	48	0	N/A				0.1	0.26	1.9	6.14	19.38	31.6
TKN as N	46	14	N/A				0.1	0.1	0.2	0.5	0.83	1.8
Total Phosphorus	46	0	N/A				0.18	0.22	0.35	0.78	2.16	5.08
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
48	342.7	20	41.7	> 99.9								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BURGAW CRK AT US 117 AT BURGAW

Station #: B9520000

Hydrologic Unit Code: 03030007

Latitude: 34.56375

Longitude: -77.92202

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-74-39

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	N/A				0.3	2	5.6	7.6	9.3	11.3	12.6
pH (SU)	58	0	<4.3	0	0		5.9	6.3	6.5	7	7.4	7.6	8.3
	58	0	>9	0	0		5.9	6.3	6.5	7	7.4	7.6	8.3
Salinity (ppt)	57	0	N/A				0.01	0.05	0.11	0.17	0.47	0.56	0.65
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				68	123	226	341	920	1076	1231
Water Temperature (°C)	59	0	>32	0	0		4.8	9.4	12.7	19.5	24.7	28	29.2
Other													
Chlorophyll a (ug/L)	58	15	>40	0	0		1	1	1	2	3	9	38
Hardness (mg/L)	14	0	N/A				33	38	52	67	74	102	130
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	7.3	12	13.8	24
Turbidity (NTU)	59	0	>50	2	3.4		3.9	5.2	6.6	8.5	12	21	270
Nutrients (mg/L)													
NH3 as N	59	5	N/A				0.02	0.02	0.03	0.07	0.12	0.26	1.2
NO2 + NO3 as N	59	3	N/A				0.02	0.09	0.28	4.3	18	24	34
TKN as N	59	1	N/A				0.28	0.56	0.74	0.91	1.1	1.5	2.9
Total Phosphorus	59	0	N/A				0.08	0.19	0.29	0.62	2.2	3.2	4.5
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	237.5	16	27.1	88.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LILLINGTON CRK AT SR 1520 NR STAG PARK

Station #: B9550000

Hydrologic Unit Code: 03030007

Latitude: 34.50844

Longitude: -77.81537

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 18-74-42

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	N/A				0.2	0.8	4.5	6.5	8.9	10.4	11.8
pH (SU)	59	0	<4.3	30	50.8	> 99.9	3.2	3.4	3.7	4.2	5.1	5.7	6.4
	59	0	>9	0	0		3.2	3.4	3.7	4.2	5.1	5.7	6.4
Salinity (ppt)	58	0	N/A				0.01	0.02	0.02	0.03	0.04	0.09	0.15
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				55	59	68	84	109	194	316
Water Temperature (°C)	60	0	>32	0	0		2.6	8.6	11.4	16.2	22.3	25.3	26.5
Other													
Hardness (mg/L)	14	0	N/A				12	12	16	24	45	61	68
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	11.6	12
Turbidity (NTU)	60	0	>50	0	0		1.3	2.6	3.8	5.5	7.2	9.8	18
Nutrients (mg/L)													
NH3 as N	60	6	N/A				0.02	0.02	0.05	0.13	0.36	1.98	4.2
NO2 + NO3 as N	60	35	N/A				0.02	0.02	0.02	0.02	0.04	0.1	0.4
TKN as N	60	0	N/A				0.64	0.7	0.87	1.15	1.5	2.49	5
Total Phosphorus	60	3	N/A				0.02	0.02	0.02	0.03	0.05	0.1	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	86.3	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT US 117 AT CASTLE HAYNE

Station #: B9580000

Hydrologic Unit Code: 03030007

Latitude: 34.36366

Longitude: -77.89645

Stream class: B Sw

Agency: LCFRP

NC stream index: 18-74-(47.5)

Time period: 01/08/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	N/A				0.3	3.4	4	5.5	8.1	9.6	11.1
pH (SU)	58	0	<4.3	0	0		5.7	5.9	6.2	6.6	6.7	6.9	7.1
	58	0	>9	0	0		5.7	5.9	6.2	6.6	6.7	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				95	111	133	154	209	280	5221
Water Temperature (°C)	58	0	>32	0	0		6.2	8.1	12.3	20.2	26.2	29.3	30.8
Other													
TSS (mg/L)	58	9	N/A				2	2.7	3	3.8	4.7	6	10
Nutrients (mg/L)													
NH3 as N	56	4	N/A				0.01	0.01	0.02	0.03	0.08	0.12	0.18
NO2 + NO3 as N	58	3	N/A				0.02	0.05	0.18	0.25	0.36	0.55	1.02
TKN as N	58	4	N/A				0.1	0.29	0.5	0.65	0.8	1	1.2
Total Phosphorus	55	0	N/A				0.04	0.05	0.07	0.1	0.12	0.16	0.31
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	55.8	2	3.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT US 117 AT CASTLE HAYNE

Station #: B9580000

Hydrologic Unit Code: 03030007

Latitude: 34.36366

Longitude: -77.89645

Stream class: B Sw

Agency: NCAMBNT

NC stream index: 18-74-(47.5)

Time period: 01/26/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				0.1	2.9	3.7	5.2	7.1	9.4	11.2
pH (SU)	56	0	<4.3	0	0		5.2	5.4	5.6	5.9	6.3	6.6	6.9
	56	0	>9	0	0		5.2	5.4	5.6	5.9	6.3	6.6	6.9
Salinity (ppt)	55	0	N/A				0.03	0.04	0.05	0.07	0.09	0.17	2.84
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				80	104	120	151	188	348	5194
Water Temperature (°C)	57	0	>32	0	0		3.1	8	13.2	20.9	26.8	29.3	30.6
Other													
Hardness (mg/L)	12	0	N/A				25	27	38	48	65	170	210
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	56	0	>50	0	0		1.8	2.4	3.1	4	5.1	6.7	8.5
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				0.14	0.14	0.14	0.14	0.14	0.14	0.14
TKN as N	1	0	N/A				0.57	0.57	0.57	0.57	0.57	0.57	0.57
Total Phosphorus	1	0	N/A				0.04	0.04	0.04	0.04	0.04	0.04	0.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	28.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV NR WRIGHTSBORO

Station #: B9670000

Hydrologic Unit Code: 03030007

Latitude: 34.31526

Longitude: -77.95307

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-(52.5)

Time period: 01/07/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	108	0	N/A				1.7	3.9	4.3	5.7	7.6	9	11.3
pH (SU)	109	0	<4.3	0	0		5.5	6.5	6.6	6.8	7	7.1	7.6
	109	0	>9	0	0		5.5	6.5	6.6	6.8	7	7.1	7.6
Spec. conductance (umhos/cm at 25°C)	109	0	N/A				73	132	201	2155	10735	21005	31319
Water Temperature (°C)	109	0	>32	0	0		3.1	11.5	14.7	23.8	27.4	29.7	31.4
Other													
TSS (mg/L)	60	0	N/A				2	3.4	7.6	9.8	19.2	28.9	86
Nutrients (mg/L)													
NH3 as N	56	5	N/A				0.01	0.01	0.01	0.03	0.06	0.1	0.3
NO2 + NO3 as N	60	4	N/A				0.02	0.13	0.22	0.29	0.41	0.56	0.94
TKN as N	60	5	N/A				0.1	0.2	0.4	0.6	0.7	0.9	1.1
Total Phosphorus	58	0	N/A				0.04	0.06	0.08	0.11	0.14	0.17	0.23
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	40.8	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: SMITH CRK AT US 117 AND NC 133 AT WILMINGTON

Station #: B9720000

Hydrologic Unit Code: 03030007

Latitude: 34.25861

Longitude: -77.93913

Stream class: C Sw

Agency: LCFRP

NC stream index: 18-74-63

Time period: 01/08/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	60	0	N/A				2	3.8	4.5	6.2	8.6	11.3
pH (SU)	60	0	<4.3	0	0		5.8	6.3	6.6	6.9	7	7.4
	60	0	>9	0	0		5.8	6.3	6.6	6.9	7	7.4
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				110	239	861	4087	11785	30099
Water Temperature (°C)	60	0	>32	0	0		6.4	8.8	13	20.8	27.5	30.8
Other												
TSS (mg/L)	10	0	N/A				10.3	10.5	14	20.7	27.3	43.3
Turbidity (NTU)	10	0	>50	0	0		8.2	8.2	8.5	11.3	20	30.1
Nutrients (mg/L)												
NH3 as N	10	0	N/A				0.04	0.04	0.07	0.1	0.11	0.12
NO2 + NO3 as N	10	2	N/A				0.02	0.02	0.09	0.15	0.24	0.26
TKN as N	10	2	N/A				0.1	0.1	0.1	0.3	0.4	0.7
Total Phosphorus	10	0	N/A				0.06	0.06	0.1	0.11	0.12	0.22
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	120.4	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTHEAST CAPE FEAR RIV AT NC 133 AT WILMINGTON

Station #: B9740000

Hydrologic Unit Code: 03030007

Latitude: 34.25183

Longitude: -77.95104

Stream class: SC Sw

Agency: NCAMBNT

NC stream index: 18-74-(61)

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	56	0	N/A				2.6	3.3	4.1	5.9	8.3	11.3
pH (SU)	55	0	<4.3	0	0		5.2	6.4	6.8	7	7.2	7.5
	55	0	>8.5	0	0		5.2	6.4	6.8	7	7.2	7.5
Salinity (ppt)	56	0	N/A				0.06	0.24	2.47	7.16	12.64	21.3
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				143	473	4697	11854	21164	33963
Water Temperature (°C)	57	0	>32	0	0		5.7	8.8	13.2	20.2	26.5	30.8
Other												
Chlorophyll a (ug/L)	5	1	>40	0	0		1	1	3	6	10	12
TSS (mg/L)	21	4	N/A				6.2	6.2	7.3	10	14	25.4
Turbidity (NTU)	57	0	>25	0	0		3.5	5.5	7	8.6	12	21
Nutrients (mg/L)												
NH3 as N	56	7	N/A				0.02	0.02	0.03	0.06	0.09	0.17
NO2 + NO3 as N	56	0	N/A				0.04	0.2	0.32	0.38	0.49	0.8
TKN as N	56	0	N/A				0.4	0.51	0.58	0.63	0.75	1.1
Total Phosphorus	56	0	N/A				0.06	0.08	0.08	0.1	0.11	0.18
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
56	28.5	1	1.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: BRUNSWICK RIV DNS US 17 AT PARK NR BELVILLE
Station #: B9790000 **Hydrologic Unit Code:** 03030005
Latitude: 34.22045 **Longitude:** -77.97966 **Stream class:** SC
Agency: LCFRP **NC stream index:** 18-77

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<5	29	34.9	> 99.9	3.3	3.8	4.7	7	8.4	10.3	12.1
pH (SU)	84	0	<6.8	7	8.3		6.2	6.8	7.1	7.2	7.4	7.6	7.7
	84	0	>8.5	0	0		6.2	6.8	7.1	7.2	7.4	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				72	160	605	5413	13574	20802	36385
Water Temperature (°C)	84	0	>32	0	0		3.6	9.6	13.4	20.6	27.5	29.4	31.3
Other													
TSS (mg/L)	60	0	N/A				5.8	7.5	9.6	12	17.2	24	35
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.01	0.04	0.06	0.09	0.12	0.22
NO2 + NO3 as N	60	1	N/A				0.02	0.29	0.39	0.51	0.63	0.73	0.82
TKN as N	60	8	N/A				0.1	0.11	0.33	0.5	0.6	0.8	1
Total Phosphorus	58	0	N/A				0.06	0.08	0.09	0.12	0.15	0.18	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	40.3	1	3.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 54

Station #: B9795000

Hydrologic Unit Code: 03030005

Latitude: 34.13933

Longitude: -77.94595

Stream class: SC

Agency: LCFRP

NC stream index: 18-(71)

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	108	0	<5	23	21.3	> 99.9	3.3	4.4	5	6.2	8.1	9.9	11.7
pH (SU)	109	0	<6.8	4	3.7		6.3	7.1	7.4	7.5	7.7	7.9	8.1
	109	0	>8.5	0	0		6.3	7.1	7.4	7.5	7.7	7.9	8.1
Spec. conductance (umhos/cm at 25°C)	109	0	N/A				92	5813	11345	18805	28718	34104	36656
Water Temperature (°C)	109	0	>32	0	0		4.3	10.6	15.3	24.3	27.9	29.6	31
Other													
TSS (mg/L)	60	0	N/A				6.7	8.4	10.7	14	16.6	29	53.6
Nutrients (mg/L)													
NH3 as N	56	4	N/A				0.01	0.01	0.03	0.08	0.11	0.15	0.24
NO2 + NO3 as N	60	1	N/A				0.02	0.25	0.3	0.38	0.46	0.57	0.73
TKN as N	60	5	N/A				0.1	0.2	0.33	0.5	0.6	0.8	1.2
Total Phosphorus	58	0	N/A				0.04	0.07	0.08	0.1	0.11	0.15	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	23	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 61 AT WILMINGTON

Station #: B9800000

Hydrologic Unit Code: 03030005

Latitude: 34.19431

Longitude: -77.95679

Stream class: SC

Agency: LCFRP

NC stream index: 18-(71)

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	108	0	<5	38	35.2	> 99.9	2.7	3.6	4.6	5.9	7.9	9.9	11.4
pH (SU)	109	0	<6.8	4	3.7		6	6.9	7	7.3	7.4	7.6	7.9
	109	0	>8.5	0	0		6	6.9	7	7.3	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	109	0	N/A				84	2155	6324	14687	23936	28785	33220
Water Temperature (°C)	109	0	>32	0	0		4.4	10.3	14.8	24.2	28.2	29.4	31.4
Other													
Chlorophyll a (ug/L)	18	0	>40	0	0		2	2	3	4	13	23	28
TSS (mg/L)	60	0	N/A				6.2	7.6	9	11.1	12.9	16.9	27.8
Turbidity (NTU)	60	0	>25	1	1.7		2.2	5.1	6	7.5	10	12.6	33
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.01	0.03	0.08	0.1	0.13	0.29
NO2 + NO3 as N	60	1	N/A				0.02	0.23	0.33	0.39	0.51	0.63	0.96
TKN as N	60	5	N/A				0.1	0.2	0.3	0.5	0.67	0.8	1
Total Phosphorus	58	0	N/A				0.06	0.08	0.08	0.1	0.12	0.15	0.44
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	27.9	1	3.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 61 AT WILMINGTON

Station #: B9800000

Hydrologic Unit Code: 03030005

Latitude: 34.19431

Longitude: -77.95679

Stream class: SC

Agency: NCAMBNT

NC stream index: 18-(71)

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<5	17	29.8	>99.9	3.1	4	4.4	6.3	8.6	10.2	11.3
pH (SU)	56	0	<6.8	10	17.9	95	5.6	6.6	6.9	7.1	7.2	7.4	7.5
	56	0	>8.5	0	0		5.6	6.6	6.9	7.1	7.2	7.4	7.5
Salinity (ppt)	57	0	N/A				0.11	1.69	4.07	8.55	13.43	16.66	21.23
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				215	3109	7272	15300	22355	27186	33891
Water Temperature (°C)	58	0	>32	0	0		6.1	9.2	12.9	20.2	26.3	29.8	31.3
Other													
Chlorophyll a (ug/L)	5	1	>40	0	0		1	1	4	12	15	15	15
TSS (mg/L)	21	1	N/A				6.2	6.6	8	10	11.5	14.6	28
Turbidity (NTU)	58	0	>25	0	0		3.8	5.6	6.6	8	11	14	18
Nutrients (mg/L)													
NH3 as N	5	3	N/A				0.02	0.02	0.02	0.02	0.08	0.08	0.08
NO2 + NO3 as N	5	0	N/A				0.14	0.14	0.19	0.35	0.39	0.41	0.41
TKN as N	5	0	N/A				0.37	0.37	0.39	0.56	0.79	1	1
Total Phosphorus	5	0	N/A				0.08	0.08	0.08	0.1	0.11	0.13	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	21.1	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 56 NR WILMINGTON

Station #: B9820000

Hydrologic Unit Code: 03030005

Latitude: 34.14745

Longitude: -77.95263

Stream class: SC

Agency: NCAMBNT

NC stream index: 18-(71)

Time period: 02/02/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	14	25.9	99.9	3.3	4.3	4.9	6.5	8.8	10.1	11.1
pH (SU)	53	0	<6.8	10	18.9	96.4	5.8	6.5	7	7.2	7.4	7.6	7.7
Salinity (ppt)	53	0	>8.5	0	0		5.8	6.5	7	7.2	7.4	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				0.84	2.56	5.66	10.66	16.74	20.49	24.24
Water Temperature (°C)	55	0	>32	0	0		6.3	8.9	12.6	19.8	26	29.6	30.9
Other													
Chlorophyll a (ug/L)	5	0	>40	0	0		1	1	5	12	14	14	14
TSS (mg/L)	21	0	N/A				6.5	6.8	8	10	16	24.4	33
Turbidity (NTU)	54	0	>25	0	0		3.8	5	6	8.2	11.2	15	22
Nutrients (mg/L)													
NH3 as N	55	6	N/A				0.02	0.02	0.03	0.08	0.1	0.12	0.14
NO2 + NO3 as N	55	0	N/A				0.1	0.23	0.29	0.37	0.46	0.56	0.69
TKN as N	55	0	N/A				0.34	0.45	0.49	0.56	0.65	0.68	0.98
Total Phosphorus	55	0	N/A				0.05	0.06	0.07	0.08	0.1	0.11	0.14
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	15.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 42

Station #: B9845100

Hydrologic Unit Code: 03030005

Latitude: 34.09017

Longitude: -77.93355

Stream class: SC

Agency: LCFRP

NC stream index: 18-(71)

Time period: 01/12/2009 to 06/21/2011

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	66	0	<5	5	7.6		4	5	5.6	6.9	8.2	10.5	11.6
pH (SU)	66	0	<6.8	1	1.5		6.5	7.4	7.5	7.7	7.9	8	8.3
	66	0	>8.5	0	0		6.5	7.4	7.5	7.7	7.9	8	8.3
Spec. conductance (umhos/cm at 25°C)	66	0	N/A				218	9497	18226	25314	34034	38697	41122
Water Temperature (°C)	66	0	>32	0	0		4.6	9.7	15.3	23.6	28.4	29.1	31
Other													
TSS (mg/L)	30	0	N/A				8	8.2	11	14	17.9	21.5	57
Nutrients (mg/L)													
NH3 as N	30	4	N/A				0.01	0.01	0.01	0.04	0.07	0.08	0.1
NO2 + NO3 as N	30	0	N/A				0.03	0.14	0.28	0.31	0.37	0.59	0.7
TKN as N	30	1	N/A				0.2	0.3	0.4	0.55	0.7	0.79	1.4
Total Phosphorus	30	1	N/A				0.02	0.05	0.06	0.07	0.09	0.12	0.14
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
30	16.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 35

Station #: B9850100

Hydrologic Unit Code: 03030005

Latitude: 34.03348

Longitude: -77.93702

Stream class: SC

Agency: LCFRP

NC stream index: 18-(71)

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	108	0	<5	6	5.6		4	5.3	5.8	6.9	8.2	9.8	11.9
pH (SU)	109	0	<6.8	1	0.9		6.6	7.4	7.7	7.8	7.9	8	8.3
	109	0	>8.5	0	0		6.6	7.4	7.7	7.8	7.9	8	8.3
Spec. conductance (umhos/cm at 25°C)	109	0	N/A				537	15362	22486	30230	39100	41729	46381
Water Temperature (°C)	109	0	>32	0	0		5	10.7	15.6	24.3	28.2	29.2	30.9
Other													
TSS (mg/L)	60	1	N/A				3.7	7.8	10.1	12.4	16.2	19	27.7
Nutrients (mg/L)													
NH3 as N	57	11	N/A				0.01	0.01	0.01	0.04	0.07	0.11	0.18
NO2 + NO3 as N	60	3	N/A				0.02	0.05	0.18	0.26	0.3	0.4	0.63
TKN as N	60	8	N/A				0.1	0.1	0.2	0.4	0.6	0.69	0.9
Total Phosphorus	57	1	N/A				0.02	0.04	0.06	0.07	0.08	0.11	0.16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	13.3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 23

Station #: B9910000

Hydrologic Unit Code: 03030005

Latitude: 33.94560

Longitude: -77.96958

Stream class: SA HQW

Agency: LCFRP

NC stream index: 18-(87.5)

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	107	0	<5	1	0.9		4.9	5.7	6.1	6.9	8.1	9.7	11.8
pH (SU)	108	0	<6.8	0	0		6.9	7.8	7.9	8	8	8.1	8.3
	108	0	>8.5	0	0		6.9	7.8	7.9	8	8	8.1	8.3
Spec. conductance (umhos/cm at 25°C)	108	0	N/A				9045	28807	36713	42727	48224	49920	52300
Water Temperature (°C)	108	0	>32	0	0		6	10.9	15.8	24.2	27.9	29	30.5
Other													
TSS (mg/L)	59	0	N/A				7	8.3	10.3	14.1	17.8	22.6	35
Nutrients (mg/L)													
NH3 as N	56	22	N/A				0.01	0.01	0.01	0.02	0.05	0.14	0.33
NO2 + NO3 as N	59	8	N/A				0.02	0.02	0.05	0.13	0.21	0.3	0.54
TKN as N	59	11	N/A				0.1	0.1	0.2	0.3	0.4	0.6	3
Total Phosphorus	57	6	N/A				0.02	0.02	0.03	0.05	0.06	0.08	0.34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:		Median	# > 43	% > 43	%Conf				
31	10.5	0	0			10	1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CAPE FEAR RIV AT CM 18

Station #: B9921000

Hydrologic Unit Code: 03030005

Latitude: 33.91131

Longitude: -78.01658

Stream class: SC

Agency: LCFRP

NC stream index: 18-88-3.5

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	107	0	<5	0	0		5.4	5.8	6.1	7	8.2	9.3	11.2
pH (SU)	108	0	<6.8	0	0		7.2	7.9	7.9	8	8	8.1	8.2
	108	0	>8.5	0	0		7.2	7.9	7.9	8	8	8.1	8.2
Spec. conductance (umhos/cm at 25°C)	108	0	N/A				13788	35849	41732	48056	50610	52376	53651
Water Temperature (°C)	108	0	>32	0	0		5.9	10.6	15.5	23.9	27.8	28.8	30.4
Other													
Chlorophyll a (ug/L)	18	0	>40	0	0		5	5	6	8	9	11	15
TSS (mg/L)	59	0	N/A				6	8	10	17	20.5	26.6	53
Turbidity (NTU)	59	0	>25	1	1.7		2.2	3.6	4.7	5.5	7.3	12	45.2
Nutrients (mg/L)													
NH3 as N	57	29	N/A				0.01	0.01	0.01	0.01	0.04	0.33	0.5
NO2 + NO3 as N	59	22	N/A				0.02	0.02	0.02	0.03	0.12	0.21	0.39
TKN as N	59	14	N/A				0.1	0.1	0.2	0.2	0.4	0.6	0.9
Total Phosphorus	57	4	N/A				0.02	0.02	0.03	0.04	0.06	0.08	0.11
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
31	9.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: ICW NR SOUTHPORT

Station #: B9980000

Hydrologic Unit Code: 03030005

Latitude: 33.91732

Longitude: -78.03794

Stream class: SA HQW

Agency: LCFRP

NC stream index: 18-88-9

Time period: 01/12/2009 to 06/21/2011

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	65	0	<5	7	10.8	52.1	4.5	4.9	5.4	6.8	7.9	9.8	11.3
pH (SU)	65	0	<6.8	0	0		7.5	7.6	7.7	7.8	7.9	8	8
	65	0	>8.5	0	0		7.5	7.6	7.7	7.8	7.9	8	8
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				12276	34414	37198	45984	48113	51311	52986
Water Temperature (°C)	65	0	>32	0	0		5.4	10	15.1	24	28.1	29.1	30.8
Other													
TSS (mg/L)	29	0	N/A				8	12	16	18	21.5	27.9	42
Nutrients (mg/L)													
NH3 as N	29	15	N/A				0.01	0.01	0.01	0.01	0.01	0.04	0.08
NO2 + NO3 as N	29	8	N/A				0.02	0.02	0.02	0.05	0.15	0.21	0.49
TKN as N	29	4	N/A				0.2	0.2	0.25	0.4	0.5	0.6	0.7
Total Phosphorus	29	3	N/A				0.02	0.02	0.03	0.04	0.05	0.06	0.07
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:			Median	# > 43	% > 43	%Conf			
29	10	0	0				10	1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Catawba

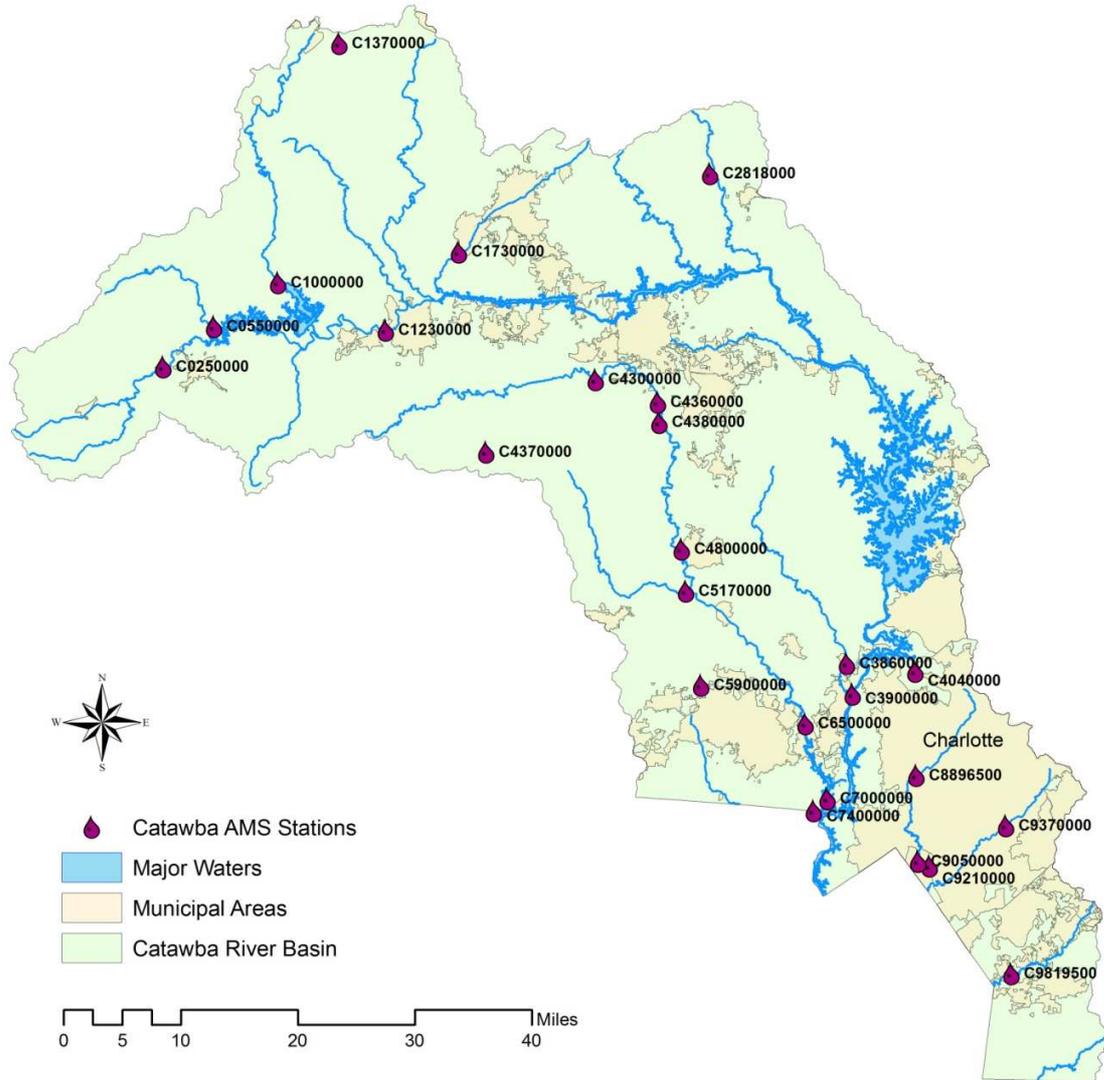


Figure CTB-1. Catawba River basin ambient monitoring station locations, 2009-2013.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table CTB-1. AMS monitoring stations in the Catawba River basin, 2009-2013.

Station	Location	Stream Class	Latitude	Longitude
Catawba River Headwaters: HUC 03050101				
C0250000	Catawba Riv at SR 1221 near Pleasant Gardens	C	35.686	-82.0608
C0550000	N Fork Catawba Riv at SR 1552 near Hankins	C	35.7383	-81.9857
C1000000	Linville Riv at NC 126 near Nebo	B HQW	35.7954	-81.8901
C1230000	Catawba Riv at SR 1304 near Calvin	WS-IV	35.7398	-81.7244
C1370000	Wilson Crk at US 221 near Gragg	B Tr ORW	36.097	-81.8074
C1370100	Stack Creek at US 221 near Linville	C Tr ORW	36.0897	-81.8197
C1385000	Wilson Crk at SR 1358 at Edgemont	B Tr ORW	36.003	-81.771
C1730000	Lower Creek at SR 1142 near Lenoir	WS-IV	35.8402	-81.6167
C1750000	Lower Crk at SR 1501 near Morganton Marion	WS-IV	35.8251	-81.6359
C2818000	Lower Little Riv at SR 1313 near All Healing Springs	C	35.9459	-81.237
C3860000	Dutchmans Crk at SR 1918 at Mountain Island	WS-IV	35.3365	-81.0133
C3900000	Catawba Riv at NC 27 near Thrift	WS-IV CA	35.2982	-81.0032
C4040000	Long Crk at SR 2042 near Paw Creek	WS-IV	35.3285	-80.9096
C7400000	Catawba Crk at SR 2302 at SC State Line	WS-V B	35.1514	-81.0582
C8660000	Crowders Crk at SC 564 Ridge Rd near Bowling Green SC	FW	35.1437	-81.1505
South Fork Catawba River: HUC 03050102				
C4300000	Heneary Fork Riv at SR 1124 near Heneary River	C	35.6848	-81.4035
C4360000	Heneary Fork Riv at SR 1143 near Brookford	C	35.6583	-81.3084
C4370000	Jacob Fork at SR 1924 at Ramsey	WS-III ORW	35.5906	-81.5671
C4380000	S Fork Catawba Riv at NC 10 near Startown	WS-IV	35.6331	-81.3053
C4800000	Clark Crk at SR 1008 Grove St at Lincolnton	WS-IV	35.4753	-81.2672
C5170000	Indian Crk at SR 1252 near Laboratory	WS-IV	35.4228	-81.2592
C5900000	Long Crk at SR 1456 near Bessemer City	C	35.3052	-81.2326
C6500000	S Fork Catawba Riv at NC 7 at Mcadenville	WS-V	35.2601	-81.0739
C7000000	S Fork Catawba Riv at SR 2524 near South Belmont	WS-V B	35.1667	-81.0383
Catawba River: HUC 03050103				
C8896500	Irwin Crk at Irwin Crk WWTP near Charlotte	C	35.198	-80.9045
C9050000	Sugar Crk at NC 51 at Pineville	C	35.0907	-80.8996
C9210000	Little Sugar Crk at NC 51 at Pineville	C	35.085	-80.8822
C9370000	Mcalpine Crk at SR 3356 Sardis Rd near Charlotte	C	35.1373	-80.7682
C9680000	Mcalpine Crk at SC SR 2964 near Camp Cox SC	FW	35.041	-80.8916
C9790000	Sugar Crk at SC 160 near Fort Mill SC	FW	35.0059	-80.9022
C9819500	Twelve Mile Crk at NC 16 near Waxhaw	C	34.9523	-80.7558

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CATAWBA RIV AT SR 1221 NR PLEASANT GARDENS
Station #: C0250000 **Hydrologic Unit Code:** 03050101
Latitude: 35.68597 **Longitude:** -82.06075 **Stream class:** C
Agency: NCAMBNT **NC stream index:** 11-(8)

Time period: 01/21/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	18	0	<4	0	0		7.9	8.6	9.4	10.9	12.4	14.1	14.9
	18	0	<5	0	0		7.9	8.6	9.4	10.9	12.4	14.1	14.9
pH (SU)	17	0	<6	0	0		6	6.2	6.5	7	7.2	7.4	7.4
	17	0	>9	0	0		6	6.2	6.5	7	7.2	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				38	42	45	47	56	62	76
Water Temperature (°C)	18	0	>29	0	0		1.9	5	7.4	10.3	16.9	21.4	22.1
Other													
Hardness (mg/L)	14	0	N/A				11	12	13	15	16	54	89
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	7.1	19.8	33.8	39
Turbidity (NTU)	58	0	>50	3	5.2		1	1.6	2.2	5.1	8.8	22.3	200
Nutrients (mg/L)													
NH3 as N	56	51	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	56	0	N/A				0.05	0.08	0.13	0.16	0.19	0.24	0.3
TKN as N	56	39	N/A				0.2	0.2	0.2	0.2	0.2	0.24	1.8
Total Phosphorus	56	5	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	117.4	7	12.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: N FORK CATAWBA RIV AT SR 1552 NR HANKINS

Station #: C0550000

Hydrologic Unit Code: 03050101

Latitude: 35.73832

Longitude: -81.98572

Stream class: C

Agency: NCAMBNT

NC stream index: 11-24-(13)

Time period: 01/21/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<4	0	0		7.5	8.1	9.3	11	12.2	12.8	14.5
	19	0	<5	0	0		7.5	8.1	9.3	11	12.2	12.8	14.5
pH (SU)	18	0	<6	0	0		6.4	6.4	6.6	7.2	7.8	7.9	8.2
	18	0	>9	0	0		6.4	6.4	6.6	7.2	7.8	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				46	47	68	88	119	123	131
Water Temperature (°C)	19	0	>29	0	0		1.8	5.6	7.6	10.1	17.4	23.2	23.7
Other													
Hardness (mg/L)	14	0	N/A				21	22	25	33	38	44	49
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	11.3	19.7	32
Turbidity (NTU)	59	3	>50	3	5.1		1	1.3	2.2	4	7.9	13	450
Nutrients (mg/L)													
NH3 as N	57	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	57	2	N/A				0.02	0.06	0.15	0.2	0.3	0.37	0.65
TKN as N	57	33	N/A				0.2	0.2	0.2	0.2	0.2	0.27	0.77
Total Phosphorus	57	2	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	42	4	6.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LINVILLE RIV AT NC 126 NR NEBO

Station #: C1000000

Hydrologic Unit Code: 03050101

Latitude: 35.79539

Longitude: -81.89013

Stream class: B HQW

Agency: NCAMBNT

NC stream index: 11-29-(19)

Time period: 01/21/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<4	0	0		8.3	8.5	9.6	11.3	12.2	13.6	15.1
	19	0	<5	0	0		8.3	8.5	9.6	11.3	12.2	13.6	15.1
pH (SU)	18	0	<6	1	5.6		5.3	5.9	6.3	6.6	7.2	7.4	7.4
	18	0	>9	0	0		5.3	5.9	6.3	6.6	7.2	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				38	39	39	48	54	56	57
Water Temperature (°C)	19	0	>29	0	0		0.8	4.4	7.1	9.7	16.4	23.9	24
Other													
Hardness (mg/L)	14	0	N/A				10	10	12	13	15	17	18
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	6.2	7.8	11
Turbidity (NTU)	58	13	>50	1	1.7		1	1	1.1	1.9	3.2	5.1	110
Nutrients (mg/L)													
NH3 as N	55	54	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	55	1	N/A				0.02	0.12	0.19	0.25	0.32	0.37	0.47
TKN as N	55	39	N/A				0.2	0.2	0.2	0.2	0.2	0.24	1.2
Total Phosphorus	55	37	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	14.5	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CATAWBA RIV AT SR 1304 NR CALVIN

Station #: C1230000

Hydrologic Unit Code: 03050101

Latitude: 35.73983

Longitude: -81.72436

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 11-(32.7)

Time period: 01/30/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	18	0	<4	0	0		6.1	7.8	8.5	10.2	11.8	12.5	12.7
	18	0	<5	0	0		6.1	7.8	8.5	10.2	11.8	12.5	12.7
pH (SU)	18	0	<6	2	11.1	45	5.8	5.9	6.2	6.9	7.1	7.2	7.2
	18	0	>9	0	0		5.8	5.9	6.2	6.9	7.1	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				48	49	50	54	60	72	87
Water Temperature (°C)	18	0	>29	0	0		5.2	5.3	8.2	11.1	18.4	21.5	23.6
Other													
Hardness (mg/L)	14	0	>100	0	0		8	11	16	16	18	26	32
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	12.5	21.8	710
Turbidity (NTU)	58	1	>50	3	5.2		1	1.7	2.7	5.7	10	27.9	300
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
58	66.2		10	17.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: WILSON CRK AT US 221 NR GRAGG

Station #: C1370000

Hydrologic Unit Code: 03050101

Latitude: 36.09695

Longitude: -81.80743

Stream class: B Tr ORW

Agency: NCAMBNT

NC stream index: 11-38-34

Time period: 10/19/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	10	0	<6	0	0		10	10	10.6	11.4	12.3	12.4	12.4
pH (SU)	10	0	<6	1	10		5.8	5.8	6.1	6.2	6.4	6.7	6.7
	10	0	>9	0	0		5.8	5.8	6.1	6.2	6.4	6.7	6.7
Spec. conductance (umhos/cm at 25°C)	10	0	N/A				15	15	17	17	17	18	18
Water Temperature (°C)	10	0	>20	0	0		2	2	3	5.2	8.5	10.2	10.3
	10	0	>29	0	0		2	2	3	5.2	8.5	10.2	10.3
Other													
Chloride (mg/L)	45	23	>230	0	0		1	1	1	1	1	2	3
Fluoride (mg/L)	45	44	>1.8	0	0		0.2	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	14	0	N/A				4	4	5	5	6	13	20
Sulfate (mg/L)	44	6	N/A				1	2	2	3	3	3	4
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	6.2	12	232
Turbidity (NTU)	47	35	>10	0	0		1	1	1	1	1.1	1.7	6.5
Nutrients (mg/L)													
NH3 as N	46	46	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	46	1	N/A				0.02	0.05	0.1	0.14	0.2	0.27	0.57
TKN as N	46	42	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.67
Total Phosphorus	46	42	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
46	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: STACK ROCK CRK AT US 221 NR LINVILLE

Station #: C1370100

Hydrologic Unit Code: 03050101

Latitude: 36.08968

Longitude: -81.81972

Stream class: C Tr ORW

Agency: NCAMBNT

NC stream index: 11-38-34-5

Time period: 01/28/2009 to 09/29/2009

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	9	0	<6	0	0		8.1	8.1	8.7	10.3	12	13	13
pH (SU)	9	0	<6	9	100		3.4	3.4	4	4.4	4.7	4.8	4.8
	9	0	>9	0	0		3.4	3.4	4	4.4	4.7	4.8	4.8
Spec. conductance (umhos/cm at 25°C)	9	0	N/A				16	16	20	22	24	27	27
Water Temperature (°C)	9	0	>20	0	0		0.4	0.4	5.9	9.7	15.8	17.4	17.4
	9	0	>29	0	0		0.4	0.4	5.9	9.7	15.8	17.4	17.4
Other													
Chloride (mg/L)	9	8	>230	0	0		1	1	1	1	1	2	2
Fluoride (mg/L)	9	9	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Sulfate (mg/L)	9	2	N/A				2	2	2	2	3	3	3
TSS (mg/L)	3	3	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.2
Turbidity (NTU)	9	2	>10	1	11.1		1	1	1.1	2.3	3.5	26	26
Nutrients (mg/L)													
NH3 as N	9	9	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	9	0	N/A				0.05	0.05	0.07	0.09	0.19	0.27	0.27
TKN as N	9	3	N/A				0.2	0.2	0.2	0.23	0.27	0.32	0.32
Total Phosphorus	9	8	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
9	2.3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOWER CRK AT SR 1142 NR LENOIR

Station #: C1730000

Hydrologic Unit Code: 03050101

Latitude: 35.84017 **Longitude:** -81.61670

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 11-39-(6.5)

Time period: 07/12/2012 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	2	0	<4	0	0		9.7	9.7	9.7	10.6	11.5	11.5	11.5
	2	0	<5	0	0		9.7	9.7	9.7	10.6	11.5	11.5	11.5
pH (SU)	2	0	<6	0	0		7	7	7	7	7	7	7
	2	0	>9	0	0		7	7	7	7	7	7	7
Spec. conductance (umhos/cm at 25°C)	2	0	N/A				62	62	62	77	92	92	92
Water Temperature (°C)	2	0	>29	0	0		5.3	5.3	5.3	8.8	12.2	12.2	12.2
Other													
Hardness (mg/L)	6	0	>100	0	0		25	25	26	28	30	34	34
TSS (mg/L)	6	1	N/A				6.2	6.2	7.2	11.5	21	42	42
Turbidity (NTU)	17	0	>50	2	11.8	48.1	1.5	1.9	4.9	16	43.5	158	190
Nutrients (mg/L)													
NH3 as N	17	2	N/A				0.02	0.02	0.02	0.02	0.05	0.11	0.28
NO2 + NO3 as N	17	0	>10	0	0		0.14	0.28	0.52	0.61	0.73	0.79	0.91
TKN as N	17	1	N/A				0.2	0.2	0.23	0.28	0.41	0.91	1.4
Total Phosphorus	17	0	N/A				0.02	0.04	0.05	0.08	0.16	0.25	0.45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
17	188.8	4	23.5	54.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOWER CRK AT SR 1501 NR MORGANTON MARION

Station #: C1750000

Hydrologic Unit Code: 03050101

Latitude: 35.82512

Longitude: -81.63587

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 11-39-(6.5)

Time period: 01/30/2009 to 06/18/2012

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	16	0	<4	0	0		7.2	7.3	8.1	9.6	11.3	12.2	12.4
	16	0	<5	0	0		7.2	7.3	8.1	9.6	11.3	12.2	12.4
pH (SU)	16	0	<6	0	0		6	6.3	6.7	6.8	7	7.3	7.4
	16	0	>9	0	0		6	6.3	6.7	6.8	7	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	15	0	N/A				47	55	83	94	102	112	113
Water Temperature (°C)	16	0	>29	0	0		4.1	4.6	7.3	12.5	18.5	22	22.1
Other													
Hardness (mg/L)	8	0	>100	0	0		24	24	26	29	32	32	32
TSS (mg/L)	14	3	N/A				6.2	6.2	7.2	17.5	46.8	88	91
Turbidity (NTU)	41	0	>50	10	24.4	99.4	4.4	5.7	8.4	18	47	98	230
Nutrients (mg/L)													
NH3 as N	39	3	N/A				0.02	0.02	0.02	0.03	0.04	0.09	0.15
NO2 + NO3 as N	39	0	>10	0	0		0.15	0.38	0.48	0.58	0.72	0.8	0.89
TKN as N	39	5	N/A				0.2	0.2	0.24	0.28	0.4	1.1	1.6
Total Phosphorus	39	0	N/A				0.03	0.03	0.04	0.09	0.15	0.26	0.48
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
41	365.5	18	43.9	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LOWER LITTLE RIV AT SR 1313 NR ALL HEALING SPRINGS

Station #: C2818000

Hydrologic Unit Code: 03050101

Latitude: 35.94585

Longitude: -81.23698

Stream class: C

Agency: NCAMBNT

NC stream index: 11-69-(0.5)

Time period: 01/06/2009 to 12/04/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		4	7.7	8.4	9.6	11.5	12.9	13.6
	60	0	<5	1	1.7		4	7.7	8.4	9.6	11.5	12.9	13.6
pH (SU)	60	0	<6	2	3.3		5.8	6.1	6.4	7.2	7.7	8.1	9.2
	60	0	>9	1	1.7		5.8	6.1	6.4	7.2	7.7	8.1	9.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				40	45	48	51	53	54	58
Water Temperature (°C)	60	0	>29	0	0		2.6	5.6	8.8	14.9	19.8	21.8	25.3
Other													
Hardness (mg/L)	14	0	N/A				8	11	15	15	16	17	17
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	12	75.8	100
Turbidity (NTU)	60	0	>50	2	3.3		2.2	3.1	3.7	5.4	9.5	34.3	170
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	273.8	20	33.9	99.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: DUTCHMANS CRK AT SR 1918 AT MOUNTAIN ISLAND

Station #: C3860000

Hydrologic Unit Code: 03050101

Latitude: 35.33646

Longitude: -81.01328

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 11-119-(0.5)

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	0	0		6.1	7	7.8	9.3	11.3	12.3	14.5
	59	0	<5	0	0		6.1	7	7.8	9.3	11.3	12.3	14.5
pH (SU)	58	0	<6	1	1.7		5.9	6.6	6.9	7.3	7.5	7.8	8.1
	58	0	>9	0	0		5.9	6.6	6.9	7.3	7.5	7.8	8.1
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				62	82	93	102	117	126	174
Water Temperature (°C)	59	0	>32	0	0		1.1	6	9.4	15.4	22.4	24.4	27.1
Other													
Hardness (mg/L)	14	0	>100	0	0		25	27	31	33	34	38	39
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8	15.5	87.1	153
Turbidity (NTU)	59	0	>50	8	13.6	76.5	2.4	4.2	7.1	12	22	80	170
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	213.1	12	20.7	49.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CATAWBA RIV AT NC 27 NR THRIFT

Station #: C3900000

Hydrologic Unit Code: 03050101

Latitude: 35.29818

Longitude: -81.00323

Stream class: WS-IV CA

Agency: NCAMBNT

NC stream index: 11-(117)

Time period: 01/29/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		4.8	5.3	6.2	8	10	11.5	12.1
	56	0	<5	1	1.8		4.8	5.3	6.2	8	10	11.5	12.1
pH (SU)	57	0	<6	1	1.8		5.8	6.2	6.5	7.2	7.5	7.6	8
	57	0	>9	0	0		5.8	6.2	6.5	7.2	7.5	7.6	8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				46	56	65	72	75	80	104
Water Temperature (°C)	58	0	>32	0	0		7.3	9.4	12.2	19.5	27.3	29.8	31.8
Other													
Chlorophyll a (ug/L)	59	6	>40	0	0		1	1	1	2	3	5	11
Hardness (mg/L)	13	0	>100	0	0		15	15	18	19	21	23	23
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	6.2	10	10
Turbidity (NTU)	59	0	>25	1	1.7		1.2	1.7	2.1	2.9	4.2	7.7	95
Nutrients (mg/L)													
NH3 as N	55	13	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.04
NO2 + NO3 as N	55	0	>10	0	0		0.02	0.06	0.09	0.15	0.2	0.24	0.33
TKN as N	55	18	N/A				0.2	0.2	0.2	0.2	0.25	0.28	0.54
Total Phosphorus	55	34	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.14
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	11	2	3.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LONG CRK AT SR 2042 NR PAW CREEK

Station #: C4040000

Hydrologic Unit Code: 03050101

Latitude: 35.32846

Longitude: -80.90962

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 11-120-(2.5)

Time period: 01/08/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		4.8	6.3	7	8.7	10.9	11.9	13
	58	0	<5	1	1.7		4.8	6.3	7	8.7	10.9	11.9	13
pH (SU)	57	0	<6	0	0		6.2	6.5	6.9	7.5	7.6	7.8	8.4
	57	0	>9	0	0		6.2	6.5	6.9	7.5	7.6	7.8	8.4
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				72	109	133	173	196	213	293
Water Temperature (°C)	59	0	>32	0	0		5.4	6.9	10.1	16.3	21.9	25	26.5
Other													
Hardness (mg/L)	14	0	>100	0	0		36	40	49	68	75	87	90
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	10.5	12	28
Turbidity (NTU)	59	0	>50	8	13.6	76.5	2.2	2.7	3.9	7.2	27	60	140
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	207	13	22.4	62.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HENRY FORK RIV AT SR 1124 NR HENRY RIVER

Station #: C4300000

Hydrologic Unit Code: 03050102

Latitude: 35.68483

Longitude: -81.40346

Stream class: C

Agency: NCAMBNT

NC stream index: 11-129-1-(12.5)

Time period: 01/06/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		5.7	7.2	8.3	9.7	11.5	13.2	14.2
	56	0	<5	0	0		5.7	7.2	8.3	9.7	11.5	13.2	14.2
pH (SU)	57	0	<6	2	3.5		5.6	6.2	6.7	7.1	7.4	7.7	8.4
	57	0	>9	0	0		5.6	6.2	6.7	7.1	7.4	7.7	8.4
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				16	28	30	32	34	36	39
Water Temperature (°C)	58	0	>32	0	0		0.1	4.9	9.3	14.3	21.1	24.5	25.3
Other													
Hardness (mg/L)	14	0	N/A				8	8	9	9	10	11	11
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.2	9.2	17
Turbidity (NTU)	59	0	>50	0	0		1.5	2.2	3	4.2	7.6	14	40
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	65.5	6	10.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HENRY FORK RIV AT SR 1143 NR BROOKFORD

Station #: C4360000

Hydrologic Unit Code: 03050102

Latitude: 35.65832

Longitude: -81.30838

Stream class: C

Agency: NCAMBNT

NC stream index: 11-129-1-(12.5)

Time period: 01/06/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		6.7	7.2	8.2	9.4	11.1	13	13.7
	57	0	<5	0	0		6.7	7.2	8.2	9.4	11.1	13	13.7
pH (SU)	58	0	<6	2	3.4		5.3	6.3	6.6	7	7.3	7.5	7.8
	58	0	>9	0	0		5.3	6.3	6.6	7	7.3	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				30	47	54	74	90	117	189
Water Temperature (°C)	59	0	>32	0	0		1.4	5.3	10.4	15.5	22	25.1	26.5
Other													
Hardness (mg/L)	14	0	N/A				10	12	15	15	18	21	23
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8.5	23.2	71.1	199
Turbidity (NTU)	59	0	>50	3	5.1		2.3	3.5	4.4	8.1	12	27	200
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	127.3	17	29.3	94.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: JACOB FORK AT SR 1924 AT RAMSEY

Station #: C4370000

Hydrologic Unit Code: 03050102

Latitude: 35.59055

Longitude: -81.56712

Stream class: WS-III ORW

Agency: NCAMBNT

NC stream index: 11-129-2-(4)

Time period: 01/30/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	16	0	<4	0	0		8.3	8.4	9.1	10.5	12.1	13.3	13.9
	16	0	<5	0	0		8.3	8.4	9.1	10.5	12.1	13.3	13.9
pH (SU)	17	0	<6	6	35.3	99.5	5.3	5.7	5.9	6.2	6.6	6.9	7
	17	0	>9	0	0		5.3	5.7	5.9	6.2	6.6	6.9	7
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				7	13	18	22	25	26	26
Water Temperature (°C)	17	0	>32	0	0		4.9	5.2	7.9	11.4	18.2	22.4	23
Other													
Hardness (mg/L)	12	0	>100	0	0		3	4	5	6	8	9	10
TSS (mg/L)	19	16	N/A				6.2	6.2	6.2	6.2	6.2	15	79
Turbidity (NTU)	57	3	>50	0	0		1	1.1	1.6	2	3.5	8	50
Nutrients (mg/L)													
NH3 as N	53	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	53	4	>10	0	0		0.02	0.02	0.03	0.05	0.07	0.09	1
TKN as N	53	48	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.71
Total Phosphorus	53	45	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	56.2	2	3.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: S FORK CATAWBA RIV AT NC 10 NR STARTOWN

Station #: C4380000

Hydrologic Unit Code: 03050102

Latitude: 35.63311

Longitude: -81.30531

Stream class: WS-V

Agency: NCAMBNT

NC stream index: 11-129-(0.5)

Time period: 01/06/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		6.7	6.9	8	9.4	11.6	13	13.7
	57	0	<5	0	0		6.7	6.9	8	9.4	11.6	13	13.7
pH (SU)	58	0	<6	0	0		6	6.3	6.6	7	7.3	7.8	8.4
	58	0	>9	0	0		6	6.3	6.6	7	7.3	7.8	8.4
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				25	41	45	54	66	80	126
Water Temperature (°C)	59	0	>32	0	0		0.6	4.9	9.4	15.2	21.8	24.6	25.9
Other													
Hardness (mg/L)	14	0	>100	0	0		13	13	14	15	16	20	20
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.5	14	61.2	126
Turbidity (NTU)	59	0	>50	2	3.4		1.8	3.2	5	8.2	13	26	120
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
59	136.7		9	15.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CLARK CRK AT SR 1008 GROVE ST AT LINCOLNTON
Station #: C4800000 **Hydrologic Unit Code:** 03050102
Latitude: 35.47532 **Longitude:** -81.26719 **Stream class:** WS-IV
Agency: NCAMBNT **NC stream index:** 11-129-5-(9.5)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		6.5	6.8	7.5	8.8	10.6	11.8	14.1
	57	0	<5	0	0		6.5	6.8	7.5	8.8	10.6	11.8	14.1
pH (SU)	59	0	<6	1	1.7		5.8	6.6	7	7.3	7.5	7.6	8.1
	59	0	>9	0	0		5.8	6.6	7	7.3	7.5	7.6	8.1
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				31	166	254	386	494	607	923
Water Temperature (°C)	59	0	>32	0	0		2.6	6.2	10.2	16.4	21.4	23.7	25.6
Other													
Hardness (mg/L)	14	0	>100	0	0		30	31	34	36	39	42	43
TSS (mg/L)	20	5	N/A				6.2	6.2	8.8	13	25.2	35.8	139
Turbidity (NTU)	59	0	>50	6	10.2	45.3	2.9	6.7	8.5	15	31	90	430
Nutrients (mg/L)													
NH3 as N	59	9	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.13
NO2 + NO3 as N	59	0	>10	0	0		0.34	0.88	1.1	1.3	1.7	2	2.7
TKN as N	59	1	N/A				0.2	0.29	0.34	0.39	0.43	0.61	1.3
Total Phosphorus	59	0	N/A				0.09	0.14	0.16	0.21	0.29	0.34	0.75
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	426.2	24	40.7	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: INDIAN CRK AT SR 1252 NR LABORATORY

Station #: C5170000

Hydrologic Unit Code: 03050102

Latitude: 35.42280

Longitude: -81.25920

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 11-129-8-(6.5)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		6.7	7.3	8	9.5	11.4	12.8	14.4
	57	0	<5	0	0		6.7	7.3	8	9.5	11.4	12.8	14.4
pH (SU)	59	0	<6	3	5.1		5.5	6.2	6.5	7.3	7.6	7.8	8.4
	59	0	>9	0	0		5.5	6.2	6.5	7.3	7.6	7.8	8.4
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				40	64	69	74	78	87	95
Water Temperature (°C)	59	0	>32	0	0		1.5	5.7	9.6	15.7	21.5	23.9	25.9
Other													
Hardness (mg/L)	13	0	>100	0	0		20	20	21	22	24	24	24
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.2	11.5	13.8	23
Turbidity (NTU)	59	0	>50	3	5.1		3.3	4.8	6.1	11	17	28	350
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	343.1	20	33.9	99.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LONG CRK AT SR 1456 NR BESSEMER CITY

Station #: C5900000

Hydrologic Unit Code: 03050102

Latitude: 35.30518

Longitude: -81.23264

Stream class: C

Agency: NCAMBNT

NC stream index: 11-129-16-(4)

Time period: 01/08/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		4.7	6	6.8	8.8	11	12.7	14.2
	57	0	<5	1	1.8		4.7	6	6.8	8.8	11	12.7	14.2
pH (SU)	59	0	<6	0	0		6	6.3	6.7	7.3	7.5	8.1	8.7
	59	0	>9	0	0		6	6.3	6.7	7.3	7.5	8.1	8.7
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				43	82	99	108	128	155	177
Water Temperature (°C)	59	0	>32	0	0		1.5	5.6	9.8	14.6	20.7	22.9	24.8
Other													
Hardness (mg/L)	14	0	N/A				27	31	36	40	48	54	57
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	11.5	127.3	581
Turbidity (NTU)	59	0	>50	7	11.9	62.2	3.6	4.6	6.2	8.4	16	70	290
Nutrients (mg/L)													
NH3 as N	59	25	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.1
NO2 + NO3 as N	59	0	N/A				0.02	0.21	0.32	0.42	0.54	0.59	0.72
TKN as N	59	7	N/A				0.2	0.2	0.21	0.29	0.36	0.67	2.8
Total Phosphorus	59	0	N/A				0.02	0.03	0.04	0.05	0.06	0.17	0.78
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	332.6	17	28.8	93.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: S FORK CATAWBA RIV AT NC 7 AT MCADENVILLE

Station #: C6500000

Hydrologic Unit Code: 03050102

Latitude: 35.26014

Longitude: -81.07390

Stream class: WS-V

Agency: NCAMBNT

NC stream index: 11-129-(15.5)

Time period: 01/08/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	1	1.7		2.4	6.6	7.5	9.2	11.3	12.2	13.9
	59	0	<5	1	1.7		2.4	6.6	7.5	9.2	11.3	12.2	13.9
pH (SU)	59	0	<6	0	0		6	6.4	6.8	7.4	7.6	7.8	8.3
	59	0	>9	0	0		6	6.4	6.8	7.4	7.6	7.8	8.3
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				53	74	102	126	158	206	244
Water Temperature (°C)	59	0	>32	0	0		2.1	5.6	10.4	16.8	23	26.4	29
Other													
Hardness (mg/L)	14	0	>100	0	0		20	21	24	24	28	30	30
TSS (mg/L)	20	2	N/A				6.2	6.8	11	16	21.8	69.8	190
Turbidity (NTU)	59	0	>50	10	16.9	93.3	5.2	7.8	13	21	38	160	380
Nutrients (mg/L)													
NH3 as N	59	8	N/A				0.02	0.02	0.02	0.04	0.06	0.07	0.1
NO2 + NO3 as N	59	0	>10	0	0		0.46	0.53	0.66	0.76	0.88	0.99	1.2
TKN as N	59	1	N/A				0.2	0.26	0.29	0.37	0.5	0.87	1.6
Total Phosphorus	59	0	N/A				0.04	0.06	0.08	0.1	0.13	0.31	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	147.6	12	20.7	49.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S FORK CATAWBA RIV AT SR 2524 NR SOUTH BELMONT

Station #: C7000000

Hydrologic Unit Code: 03050102

Latitude: 35.16666

Longitude: -81.03825

Stream class: WS-V B

Agency: NCAMBNT

NC stream index: 11-(123.5)

Time period: 01/29/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		5	5.9	6.9	8.2	9.7	10.8	12.5
	56	0	<5	0	0		5	5.9	6.9	8.2	9.7	10.8	12.5
pH (SU)	57	0	<6	0	0		6	6.3	6.8	7.5	8	8.2	8.8
	57	0	>9	0	0		6	6.3	6.8	7.5	8	8.2	8.8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				48	70	77	90	98	108	125
Water Temperature (°C)	58	0	>32	12	20.7	98.9	7.4	12.6	14.5	23.2	29.8	34	36.2
Other													
Hardness (mg/L)	14	0	>100	0	0		16	17	19	20	22	23	23
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	12	21.6	36
Turbidity (NTU)	59	0	>25	7	11.9	62.2	2.8	3.4	4.8	6.7	12	33	100
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
57	11.5		3	5.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CATAWBA CRK AT SR 2302 AT SC STATE LINE

Station #: C7400000

Hydrologic Unit Code: 03050101

Latitude: 35.15135

Longitude: -81.05824

Stream class: WS-V B

Agency: NCAMBNT

NC stream index: 11-(123.5)

Time period: 01/29/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	1	1.8		3.8	5.9	6.8	8.4	9.5	10.5	12.1
	56	0	<5	1	1.8		3.8	5.9	6.8	8.4	9.5	10.5	12.1
pH (SU)	57	0	<6	1	1.8		5.7	6.2	6.9	7.4	7.9	8.4	8.9
	57	0	>9	0	0		5.7	6.2	6.9	7.4	7.9	8.4	8.9
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				59	69	83	93	98	103	107
Water Temperature (°C)	58	0	>32	2	3.4		6.9	9.4	12.8	21.8	29.1	31.6	33.3
Other													
Hardness (mg/L)	14	0	>100	0	0		19	19	21	21	23	27	30
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	8.2	12
Turbidity (NTU)	59	0	>25	1	1.7		1.6	3.1	3.8	5	6.7	10	110
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	4.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CROWDERS CRK AT SC 564 RIDGE RD NR BOWLING GREEN SC
Station #: C8660000 **Hydrologic Unit Code:** 03050101
Latitude: 35.14374 **Longitude:** -81.15046 **Stream class:** FW
Agency: NCAMBNT **NC stream index:**
Time period: 01/08/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				6.2	7.2	7.6	9.3	10.8	11.9	13.8
pH (SU)	59	0	N/A				6.3	6.6	7	7.5	7.7	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				62	147	175	214	284	376	415
Water Temperature (°C)	59	0	N/A				3.1	7.4	11.6	16.2	21.8	25.7	28
Other													
Hardness (mg/L)	14	0	N/A				51	52	53	59	66	75	80
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.7	12	37.7	280
Turbidity (NTU)	59	0	N/A				2.2	3.8	5.1	7.3	13	40	380
Nutrients (mg/L)													
NH3 as N	59	7	N/A				0.02	0.02	0.02	0.03	0.05	0.1	0.33
NO2 + NO3 as N	59	0	N/A				0.2	0.3	0.39	0.54	0.79	1	1.5
TKN as N	59	1	N/A				0.2	0.26	0.32	0.45	0.58	0.68	1.6
Total Phosphorus	59	0	N/A				0.03	0.04	0.05	0.08	0.12	0.21	0.65
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	202.5	10	17.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: IRWIN CRK AT IRWIN CRK WWTP NR CHARLOTTE

Station #: C8896500

Hydrologic Unit Code: 03050103

Latitude: 35.19801

Longitude: -80.90453

Stream class: C

Agency: NCAMBNT

NC stream index: 11-137-1

Time period: 01/08/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		5.6	6.8	8	10.4	11.4	12.6	14.2
	58	0	<5	0	0		5.6	6.8	8	10.4	11.4	12.6	14.2
pH (SU)	58	0	<6	0	0		6.5	6.6	7	7.6	8	8.4	8.9
	58	0	>9	0	0		6.5	6.6	7	7.6	8	8.4	8.9
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				49	121	146	184	212	237	262
Water Temperature (°C)	59	0	>32	0	0		4.7	7.5	12.1	19.1	24.7	27.9	30.8
Other													
Hardness (mg/L)	14	0	N/A				38	44	56	66	73	80	83
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	12	20	24
Turbidity (NTU)	59	0	>50	4	6.8		1.4	1.8	2.3	5	14	50	280
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:	%Conf:								
59	265.6		26	44.1	> 99.9								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SUGAR CRK AT NC 51 AT PINEVILLE

Station #: C9050000

Hydrologic Unit Code: 03050103

Latitude: 35.09067

Longitude: -80.89962

Stream class: C

Agency: NCAMBNT

NC stream index: 11-137

Time period: 01/08/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		5.7	6.4	6.8	8.4	10	11	14.9
	58	0	<5	0	0		5.7	6.4	6.8	8.4	10	11	14.9
pH (SU)	59	0	<6	0	0		6.2	6.5	7	7.5	7.6	7.7	8
	59	0	>9	0	0		6.2	6.5	7	7.5	7.6	7.7	8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				130	196	233	284	339	364	469
Water Temperature (°C)	59	0	>32	0	0		2.9	8.2	11.3	17.6	24.6	27.7	29.6
Other													
Hardness (mg/L)	14	0	N/A				50	52	58	69	86	103	110
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	15.8	25.4	127
Turbidity (NTU)	59	0	>50	5	8.5		1.4	2.4	3.5	6.5	17	40	110
Nutrients (mg/L)													
NH3 as N	58	21	N/A				0.02	0.02	0.02	0.02	0.03	0.1	1.2
NO2 + NO3 as N	58	0	N/A				1.6	2.4	4.02	6.2	8.42	10.1	14
TKN as N	58	2	N/A				0.2	0.41	0.52	0.6	0.77	1	1.8
Total Phosphorus	58	0	N/A				0.2	0.37	0.44	0.64	0.95	1.2	1.7
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	307.1	18	31	96.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LITTLE SUGAR CRK AT NC 51 AT PINEVILLE

Station #: C9210000

Hydrologic Unit Code: 03050103

Latitude: 35.08502

Longitude: -80.88218

Stream class: C

Agency: NCAMBNT

NC stream index: 11-137-8

Time period: 01/08/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		5.7	6.3	6.8	8.2	9.7	10.4	12.7
	58	0	<5	0	0		5.7	6.3	6.8	8.2	9.7	10.4	12.7
pH (SU)	59	0	<6	0	0		6.3	6.8	7.1	7.4	7.6	7.7	7.9
	59	0	>9	0	0		6.3	6.8	7.1	7.4	7.6	7.7	7.9
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				142	233	303	366	410	444	473
Water Temperature (°C)	59	0	>32	0	0		6.7	11.4	14.6	19.7	26.3	30.1	31.9
Other													
Hardness (mg/L)	14	0	N/A				42	44	60	62	82	88	89
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	9.7	12	47
Turbidity (NTU)	59	0	>50	0	0		1.3	2.1	3.2	4	9.2	18	50
Nutrients (mg/L)													
NH3 as N	59	15	N/A				0.02	0.02	0.02	0.02	0.05	0.23	1.3
NO2 + NO3 as N	59	0	N/A				0.87	3.6	5.7	8.5	12	13	16
TKN as N	59	1	N/A				0.2	0.6	0.7	0.85	1	1.2	2.4
Total Phosphorus	59	0	N/A				0.25	0.54	0.72	1.1	1.5	1.8	2.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	316.5	20	34.5	99.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MCALPINE CRK AT SR 3356 SARDIS RD NR CHARLOTTE

Station #: C9370000

Hydrologic Unit Code: 03050103

Latitude: 35.13725

Longitude: -80.76817

Stream class: C

Agency: NCAMBNT

NC stream index: 11-137-9

Time period: 01/08/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	0	0		4.7	6.2	6.7	7.9	10.4	12.6	14
	59	0	<5	1	1.7		4.7	6.2	6.7	7.9	10.4	12.6	14
pH (SU)	57	0	<6	0	0		6.4	6.6	7.2	7.4	7.6	7.9	8.4
	57	0	>9	0	0		6.4	6.6	7.2	7.4	7.6	7.9	8.4
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				77	98	142	184	212	228	251
Water Temperature (°C)	59	0	>32	0	0		2.2	7.4	12.2	18.8	23.7	26.5	30.2
Other													
Hardness (mg/L)	14	0	N/A				27	30	36	66	78	85	86
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.7	12.8	34.5	36
Turbidity (NTU)	59	0	>50	4	6.8		2.7	3.4	5.3	7.9	18	38	140
Nutrients (mg/L)													
NH3 as N	58	27	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.26
NO2 + NO3 as N	58	6	N/A				0.02	0.02	0.07	0.22	0.37	0.49	1.7
TKN as N	58	1	N/A				0.2	0.27	0.3	0.34	0.45	0.61	1
Total Phosphorus	58	0	N/A				0.02	0.03	0.04	0.05	0.07	0.14	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	324.3	22	37.3	99.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: MCALPINE CRK AT SC SR 29-64 NR CAMP COX SC
Station #: C9680000 **Hydrologic Unit Code:** 03050103
Latitude: 35.04101 **Longitude:** -80.89162 **Stream class:** FW
Agency: NCAMBNT **NC stream index:**

Time period: 01/08/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	N/A				5	5.8	6.2	6.9	8.3	9.1	10
pH (SU)	59	0	N/A				6.6	6.7	7	7.2	7.4	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				42	334	428	518	615	672	709
Water Temperature (°C)	59	0	N/A				9.6	12.8	15.5	20.1	25.5	27.1	28.4
Other													
Hardness (mg/L)	14	0	N/A				81	88	99	120	160	210	260
TSS (mg/L)	20	1	N/A				7.2	8	8.3	10.5	23	39	71
Turbidity (NTU)	59	0	N/A				3.2	3.7	4.7	7.1	15	26	170
Nutrients (mg/L)													
NH3 as N	59	0	N/A				0.02	0.03	0.04	0.05	0.06	0.1	0.21
NO2 + NO3 as N	59	0	N/A				3.4	9.8	13	17	22	25	27
TKN as N	59	2	N/A				0.2	0.48	0.94	1.1	1.2	1.4	1.6
Total Phosphorus	59	0	N/A				0.24	0.28	0.34	0.4	0.47	0.59	0.68
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	260.2	15	25.9	83									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: SUGAR CRK AT SC 160 NR FORT MILL SC

Station #: C9790000

Hydrologic Unit Code: 03050103

Latitude: 35.00592

Longitude: -80.90221

Stream class: FW

Agency: NCAMBNT

NC stream index:

Time period: 01/08/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	N/A				5.5	6.4	6.9	8	9.5	10.2	11.2
pH (SU)	59	0	N/A				6	6.9	7	7.4	7.5	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				150	252	320	398	476	516	574
Water Temperature (°C)	59	0	N/A				5.9	10.3	13.1	18.7	26	27.8	31.6
Other													
Hardness (mg/L)	14	0	N/A				61	64	73	97	102	120	130
TSS (mg/L)	20	2	N/A				6.2	7.9	10	12.5	35	56.9	116
Turbidity (NTU)	59	0	N/A				4.1	6.7	8.8	12	30	50	240
Nutrients (mg/L)													
NH3 as N	59	6	N/A				0.02	0.02	0.02	0.03	0.04	0.09	0.16
NO2 + NO3 as N	59	0	N/A				2.3	5.1	7.8	10	15	16	19
TKN as N	59	0	N/A				0.23	0.57	0.74	0.85	0.99	1.1	1.9
Total Phosphorus	59	0	N/A				0.26	0.32	0.39	0.5	0.67	0.77	0.92
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	314.3	19	32.8	98.5									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TWELVEMILE CRK AT NC 16 NR WAXHAW

Station #: C9819500

Hydrologic Unit Code: 03050103

Latitude: 34.95225

Longitude: -80.75581

Stream class: C

Agency: NCAMBNT

NC stream index: 11-138

Time period: 01/08/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	5	8.5		1.1	4.5	5.8	7.1	10	11.9	13.3
pH (SU)	59	0	<5	7	11.9	62.2	1.1	4.5	5.8	7.1	10	11.9	13.3
	59	0	<6	0	0		6.2	6.5	7	7.3	7.5	7.8	8.5
Spec. conductance (umhos/cm at 25°C)	59	0	>9	0	0		6.2	6.5	7	7.3	7.5	7.8	8.5
	58	0	N/A				78	111	134	162	186	213	238
Water Temperature (°C)	59	0	>32	0	0		2	6.7	11.3	17.5	22	25	27.4
Other													
Hardness (mg/L)	14	0	N/A				10	16	45	56	66	72	73
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	12	54	230
Turbidity (NTU)	59	0	>50	5	8.5		2.6	4.4	6.1	12	21	50	140
Nutrients (mg/L)													
NH3 as N	59	25	N/A				0.02	0.02	0.02	0.02	0.05	0.08	1.3
NO2 + NO3 as N	59	9	N/A				0.02	0.02	0.08	0.32	0.42	0.66	5.2
TKN as N	59	0	N/A				0.21	0.31	0.4	0.53	0.64	0.96	2.1
Total Phosphorus	59	0	N/A				0.02	0.04	0.07	0.1	0.14	0.2	0.42
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	251.7	17	28.8	93.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Chowan

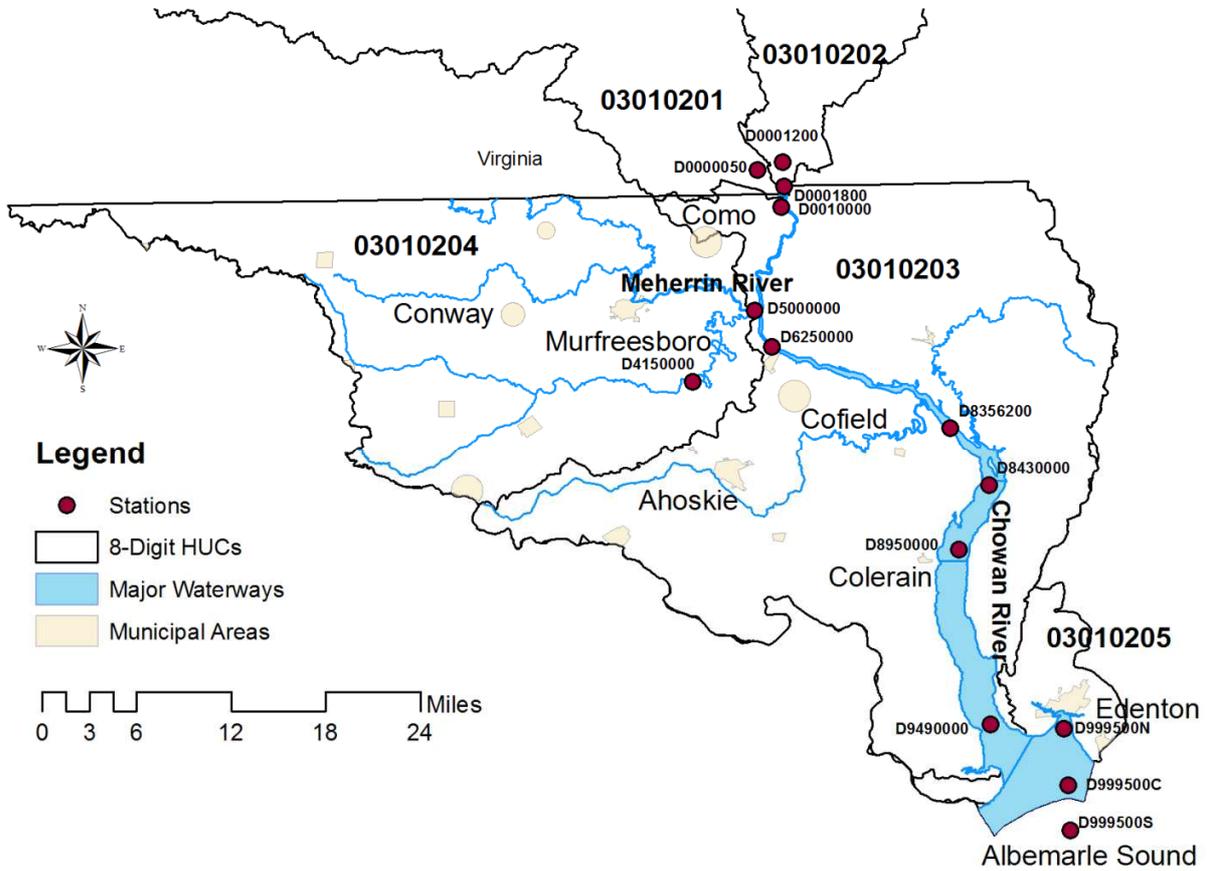


Figure CHO-1. Chowan River basin ambient monitoring station locations, 2009-2013.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table CHO-1. AMS monitoring stations in the Chowan River basin, 2009-2013.

Station ID	Location	Latitude	Longitude	Stream Class
HUC 03010201: Nottaway River				
D0000050	Nottaway River at US 258 near Riverdale, VA	36.5668	-76.9465	II Estuarine
HUC 03010202: Blackwater River				
D0001200	Blackwater River at Horseshoe Bend at Cherry Grove, VA	36.5734	-76.9180	II Estuarine
D0001800	Blackwater River 0.5 mile upstream of mouth near Wyanoke	36.5512	-76.9171	B NSW
HUC 03010203: Chowan River				
D0010000	Chowan River near Riddicksville	36.5320	-76.9210	B NSW
D6250000	Chowan River at US 13 at Winton	36.4026	-76.9343	B NSW
D8356200	Chowan River at CM 16 near Gatesville	36.3236	-76.7335	B NSW
D8430000	Chowan River at CM 12 downstream of Holiday Island	36.2689	-76.6914	B NSW
D8950000	Chowan River near CM 7 at Colerain	36.2098	-76.7268	B NSW
D9490000	Chowan River at US 17 at Edenhouse	36.0476	-76.6961	B NSW
HUC 03010204: Meherrin River and Potecasi Creek				
D4150000	Potecasi Creek at NC 11 near Union	36.3712	-77.0259	C NSW
D5000000	Meherrin River at SR 1175 Parkers Ferry near Como	36.4365	-76.9533	B NSW
HUC 03010205: Albemarle Sound				
D999500C	Albemarle Sound near Edenton Mid-Channel	35.9900	-76.6092	B NSW
D999500N	Albemarle Sound near Edenton North Shore	36.0422	-76.6128	C NSW
D999500S	Albemarle Sound near Edenton South Shore	35.9479	-76.6079	SB

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NOTTAWAY RIV AT US 258 NR RIVERDALE VA

Station #: D0000050

Hydrologic Unit Code: 03010201

Latitude: 36.56683

Longitude: -76.94646

Stream class: II Estuarine

Agency: NCAMBNT

NC stream index:

Time period: 01/12/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				2.2	3.5	4.4	5.8	9.3	10.8	12.2
pH (SU)	56	0	N/A				5.5	6.2	6.3	6.6	6.9	7	7.4
Salinity (ppt)	54	0	N/A				0.01	0.02	0.03	0.04	0.07	0.1	0.15
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				50	68	79	103	159	208	309
Water Temperature (°C)	56	0	N/A				2.6	6.6	9.9	19.3	24.8	29.1	31.5
Other													
Chlorophyll a (ug/L)	56	18	N/A				1	1	1	2	4	8	16
Hardness (mg/L)	14	0	N/A				22	22	26	30	32	35	37
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.5
Turbidity (NTU)	56	0	N/A				2.4	3.4	4	5	8	12.3	22
Nutrients (mg/L)													
NH3 as N	56	25	N/A				0.02	0.02	0.02	0.02	0.05	0.07	0.13
NO2 + NO3 as N	56	5	N/A				0.02	0.02	0.04	0.09	0.12	0.16	0.23
TKN as N	56	0	N/A				0.27	0.36	0.46	0.54	0.64	0.84	1.3
Total Phosphorus	56	0	N/A				0.03	0.04	0.06	0.07	0.08	0.1	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	14.8	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: BLACKWATER RIV AT HORSESHOE BEND AT CHERRY GROVE VA
Station #: D0001200 **Hydrologic Unit Code:** 03010202
Latitude: 36.57341 **Longitude:** -76.91795 **Stream class:** II Estuarine
Agency: NCAMBNT **NC stream index:**

Time period: 01/12/2009 to 08/26/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	N/A				2.2	2.4	3.5	4.8	9	10.6	12.1
pH (SU)	20	0	N/A				5.5	6.2	6.3	6.5	6.7	6.8	6.9
Salinity (ppt)	19	0	N/A				0.02	0.02	0.03	0.04	0.06	0.1	0.14
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				70	70	93	107	140	214	296
Water Temperature (°C)	20	0	N/A				2.5	6.4	8.9	18.4	26.7	29.4	30.6
Other													
Chlorophyll a (ug/L)	20	7	N/A				1	1	1	1	3	10	14
Hardness (mg/L)	1	0	N/A				37	37	37	37	37	37	37
TSS (mg/L)	7	6	N/A				6.2	6.2	6.2	6.2	6.2	8	8
Turbidity (NTU)	20	0	N/A				2.9	3.2	3.7	5.9	6.9	8.6	13
Nutrients (mg/L)													
NH3 as N	20	5	N/A				0.02	0.02	0.02	0.03	0.06	0.07	0.08
NO2 + NO3 as N	20	0	N/A				0.07	0.08	0.13	0.18	0.23	0.41	0.42
TKN as N	20	0	N/A				0.39	0.43	0.57	0.66	0.8	0.86	0.91
Total Phosphorus	20	0	N/A				0.02	0.03	0.05	0.07	0.12	0.14	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
20	12.8	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BLACKWATER RIV .5 MI UPS MOUTH NR WYANOKE
Station #: D0001800 **Hydrologic Unit Code:** 03010202
Latitude: 36.55118 **Longitude:** -76.91711 **Stream class:** B NSW
Agency: NCAMBNT **NC stream index:** 25

Time period: 01/12/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	20	36.4	> 99.9	1.6	2.6	3.5	4.9	8.4	9.8	11.9
pH (SU)	55	0	<5	28	50.9	> 99.9	1.6	2.6	3.5	4.9	8.4	9.8	11.9
	56	0	<6	0	0		6	6.3	6.4	6.6	6.9	7	7.3
Salinity (ppt)	56	0	>9	0	0		6	6.3	6.4	6.6	6.9	7	7.3
	54	0	N/A				0.02	0.03	0.04	0.05	0.07	0.11	0.23
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				62	93	98	118	154	214	464
Water Temperature (°C)	56	0	>32	0	0		2.6	6.9	10.1	18.9	24.8	29	30.1
Other													
Chlorophyll a (ug/L)	56	22	>40	0	0		1	1	1	1	3	6	8
Hardness (mg/L)	14	0	N/A				28	29	31	33	38	52	57
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	56	0	>50	0	0		2.4	2.7	3.3	4.9	6.9	8.8	16
Nutrients (mg/L)													
NH3 as N	56	7	N/A				0.02	0.02	0.02	0.04	0.06	0.1	0.2
NO2 + NO3 as N	56	1	N/A				0.02	0.05	0.08	0.12	0.19	0.26	0.42
TKN as N	56	0	N/A				0.46	0.48	0.58	0.68	0.8	0.98	1.2
Total Phosphorus	56	0	N/A				0.03	0.04	0.06	0.08	0.1	0.13	0.22
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	18.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CHOWAN RIV NR RIDDICKSVILLE

Station #: D0010000

Hydrologic Unit Code: 03010203

Latitude: 36.53201

Longitude: -76.92096

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 25

Time period: 01/12/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	15	26.8	> 99.9	1.8	2.8	3.9	5.1	8.6	10.3	12.1
pH (SU)	56	0	<5	25	44.6	> 99.9	1.8	2.8	3.9	5.1	8.6	10.3	12.1
	57	0	<6	0	0		6	6.2	6.4	6.6	6.8	7.2	7.6
Salinity (ppt)	57	0	>9	0	0		6	6.2	6.4	6.6	6.8	7.2	7.6
	55	0	N/A				0.02	0.03	0.03	0.04	0.07	0.09	0.18
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				62	78	87	102	154	196	367
Water Temperature (°C)	57	0	>32	0	0		2.4	6.7	9.6	18.5	24.8	29	31.5
Other													
Chlorophyll a (ug/L)	57	22	>40	0	0		1	1	1	1	3	6	10
Hardness (mg/L)	14	0	N/A				23	24	26	28	31	38	40
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	57	0	>50	0	0		2.3	2.9	3.6	4.9	8.1	11.2	19
Nutrients (mg/L)													
NH3 as N	57	10	N/A				0.02	0.02	0.02	0.04	0.06	0.08	0.17
NO2 + NO3 as N	57	1	N/A				0.02	0.05	0.06	0.11	0.15	0.22	0.27
TKN as N	57	0	N/A				0.38	0.44	0.54	0.63	0.75	0.89	1.1
Total Phosphorus	57	0	N/A				0.03	0.04	0.06	0.08	0.09	0.12	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	15.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: POTEKASI CRK AT NC 11 NR UNION

Station #: D4150000

Hydrologic Unit Code: 03010204

Latitude: 36.37121

Longitude: -77.02591

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 25-4-8

Time period: 01/07/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	19	32.2	> 99.9	1	2.7	3.6	5.7	8.4	10.8	12.8
pH (SU)	59	0	<5	28	47.5	> 99.9	1	2.7	3.6	5.7	8.4	10.8	12.8
	58	0	<6	20	34.5	> 99.9	3.9	5.6	5.8	6.1	6.4	6.5	7.6
Salinity (ppt)	58	0	>9	0	0		3.9	5.6	5.8	6.1	6.4	6.5	7.6
	59	0	N/A				0.01	0.02	0.02	0.03	0.05	0.06	0.07
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				49	60	67	87	120	138	157
Water Temperature (°C)	59	0	>32	0	0		0.1	3.9	8.9	15.1	22.5	24.4	25.6
Other													
Chlorophyll a (ug/L)	58	25	>40	0	0		1	1	1	1	2	3	7
Hardness (mg/L)	14	0	N/A				20	20	21	30	38	42	44
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	12	19.7	26
Turbidity (NTU)	58	0	>50	2	3.4		2.7	5.9	7.7	11	16.2	37.4	70
Nutrients (mg/L)													
NH3 as N	59	20	N/A				0.02	0.02	0.02	0.03	0.06	0.14	0.57
NO2 + NO3 as N	59	10	N/A				0.02	0.02	0.03	0.07	0.14	0.26	0.88
TKN as N	58	0	N/A				0.37	0.5	0.66	0.9	1.2	1.4	2.4
Total Phosphorus	58	0	N/A				0.05	0.06	0.1	0.13	0.16	0.21	0.34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	69.2	8	13.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: MEHERRIN RIV AT SR 1175 PARKERS FERRY NR COMO
Station #: D5000000 **Hydrologic Unit Code:** 03010204
Latitude: 36.43653 **Longitude:** -76.95332 **Stream class:** B NSW
Agency: NCAMBNT **NC stream index:** 25-4-(5)

Time period: 01/12/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	8	14.3	80.6	1.6	3.3	4.3	5.8	8.7	10.6	12.1
pH (SU)	56	0	<5	20	35.7	> 99.9	1.6	3.3	4.3	5.8	8.7	10.6	12.1
	57	0	<6	2	3.5		4.3	6.1	6.3	6.6	6.8	7.1	7.3
Salinity (ppt)	57	0	>9	0	0		4.3	6.1	6.3	6.6	6.8	7.1	7.3
	55	0	N/A				0.01	0.02	0.03	0.03	0.04	0.05	0.06
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				52	67	81	90	105	115	143
Water Temperature (°C)	57	0	>32	0	0		2.8	6.8	10.2	18.4	24.8	28.6	30.1
Other													
Chlorophyll a (ug/L)	55	13	>40	0	0		1	1	1	2	4	7	9
Hardness (mg/L)	14	0	N/A				25	25	28	30	32	36	36
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	7.7	12	210
Turbidity (NTU)	57	0	>50	0	0		2.7	3.3	4.4	5.7	11.5	22.2	29
Nutrients (mg/L)													
NH3 as N	57	11	N/A				0.02	0.02	0.02	0.03	0.06	0.07	0.21
NO2 + NO3 as N	57	1	N/A				0.02	0.04	0.07	0.11	0.17	0.22	0.28
TKN as N	57	0	N/A				0.31	0.43	0.48	0.62	0.75	0.86	1.1
Total Phosphorus	57	0	N/A				0.04	0.06	0.06	0.07	0.09	0.1	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	13.1	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CHOWAN RIV AT US 13 AT WINTON

Station #: D6250000

Hydrologic Unit Code: 03010203

Latitude: 36.40263

Longitude: -76.93434

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 25

Time period: 01/12/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	7	12.5	67.3	1.8	3.6	4.7	6	8.5	10.5	12.2
pH (SU)	56	0	<5	18	32.1	> 99.9	1.8	3.6	4.7	6	8.5	10.5	12.2
	57	0	<6	7	12.3	65.6	5.2	5.9	6.2	6.4	6.8	7	7.3
Salinity (ppt)	57	0	>9	0	0		5.2	5.9	6.2	6.4	6.8	7	7.3
	55	0	N/A				0.02	0.03	0.03	0.04	0.05	0.07	0.13
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				59	76	82	91	117	158	268
Water Temperature (°C)	57	0	>32	0	0		2.6	7.2	10.2	18.4	25.1	28.7	29.7
Other													
Chlorophyll a (ug/L)	56	18	>40	0	0		1	1	1	2	4	7	21
Hardness (mg/L)	14	0	N/A				23	24	25	30	32	40	42
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	7.9	12	12
Turbidity (NTU)	57	0	>50	0	0		2.5	3.2	4.1	5.9	8.8	14	21
Nutrients (mg/L)													
NH3 as N	57	9	N/A				0.02	0.02	0.02	0.03	0.06	0.09	0.14
NO2 + NO3 as N	57	3	N/A				0.02	0.04	0.05	0.1	0.16	0.21	0.26
TKN as N	57	0	N/A				0.35	0.47	0.52	0.62	0.76	0.86	1.1
Total Phosphorus	57	0	N/A				0.04	0.05	0.06	0.08	0.09	0.1	0.13
Metals (ug/L)													
Arsenic, dissolved (As)	28	28	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	1	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	28	28	>7	0	0		2	2	2	2	2	2	2
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	0	N/A				36	39	53	83	238	448	480
Nickel, dissolved (Ni)	28	28	>88	0	0		2	2	2	2	2	10	10
Zinc, dissolved (Zn)	26	24	>50	0	0		10	10	10	10	10	12	15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	7.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CHOWAN RIV AT US 13 AT WINTON

Station #: D6250000

Hydrologic Unit Code: 03010203

Latitude: 36.40263

Longitude: -76.93434

Stream class: B NSW

Agency: NCS PST

NC stream index: 25

Time period: 05/09/2011 to 05/12/2011

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Other												
Hardness (mg/L)	4	0	N/A				33	33	33	34	35	35
Metals (ug/L)												
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Copper, dissolved (Cu)	4	4	>7	0	0		2	2	2	2	2	2
Copper, total (Cu)	4	4	>7	0	0		2	2	2	2	2	2
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Manganese, dissolved (Mn)	4	0	N/A				180	180	180	180	180	180
Manganese, total (Mn)	4	0	N/A				200	200	200	205	218	220
Nickel, dissolved (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Nickel, total (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Zinc, dissolved (Zn)	4	4	>50	0	0		10	10	10	10	10	10
Zinc, total (Zn)	4	3	>50	0	0		10	10	10	10	12	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CHOWAN RIV AT CM 16 NR GATESVILLE

Station #: D8356200

Hydrologic Unit Code: 03010203

Latitude: 36.32360

Longitude: -76.73354

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 25

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	52	0	<4	2	3.8		1.9	4.7	6	7.1	8.7	10.5	11.3
pH (SU)	52	0	<5	6	11.5	57.8	1.9	4.7	6	7.1	8.7	10.5	11.3
	52	0	<6	2	3.8		5.6	6.1	6.5	6.8	7	7.3	7.5
Salinity (ppt)	52	0	>9	0	0		5.6	6.1	6.5	6.8	7	7.3	7.5
	52	0	N/A				0.02	0.02	0.03	0.03	0.06	0.15	1.17
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				63	74	82	92	122	303	2175
Water Temperature (°C)	52	0	>32	1	1.9		2.8	7	10.5	20.1	27.1	29.4	32.3
Other													
Chlorophyll a (ug/L)	52	14	>40	1	1.9		1	1	1	4	11	18	42
Hardness (mg/L)	13	0	N/A				21	22	24	29	31	209	320
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	9.8	12	12
Turbidity (NTU)	52	0	>50	0	0		2.2	2.9	4.1	5.3	7.7	11.7	19
Nutrients (mg/L)													
NH3 as N	52	12	N/A				0.02	0.02	0.02	0.03	0.06	0.09	0.17
NO2 + NO3 as N	52	4	N/A				0.02	0.02	0.06	0.09	0.13	0.17	0.24
TKN as N	52	0	N/A				0.42	0.52	0.61	0.69	0.78	0.87	1.1
Total Phosphorus	52	0	N/A				0.04	0.05	0.06	0.08	0.1	0.11	0.15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
52	3.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CHOWAN RIV AT CM 7 AT COLERAIN

Station #: D8950000

Hydrologic Unit Code: 03010203

Latitude: 36.20983

Longitude: -76.72677

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 25

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	52	0	<4	0	0		5.1	7.2	7.7	8.6	10.3	11.6	12.6
pH (SU)	52	0	<5	0	0		5.1	7.2	7.7	8.6	10.3	11.6	12.6
	52	0	<6	2	3.8		4.3	6.5	7	7.3	7.6	7.9	8.4
Salinity (ppt)	52	0	>9	0	0		4.3	6.5	7	7.3	7.6	7.9	8.4
	52	0	N/A				0.02	0.03	0.03	0.05	0.14	0.33	1.81
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				73	84	91	122	276	638	3347
Water Temperature (°C)	52	0	>32	0	0		1.5	7.1	11	19.4	26.8	29.1	31.4
Other													
Chlorophyll a (ug/L)	52	13	>40	1	1.9		1	1	1	4	9	16	68
Hardness (mg/L)	14	0	N/A				17	20	25	30	66	285	340
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	8.2	12
Turbidity (NTU)	52	0	>50	0	0		2	2.7	3.5	5.6	8.4	10.7	17
Nutrients (mg/L)													
NH3 as N	52	20	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.23
NO2 + NO3 as N	52	9	N/A				0.02	0.02	0.04	0.11	0.15	0.19	0.29
TKN as N	52	0	N/A				0.39	0.48	0.57	0.66	0.72	0.84	1.2
Total Phosphorus	52	0	N/A				0.02	0.04	0.06	0.07	0.09	0.11	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
52	3.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CHOWAN RIV AT US 17 AT EDENHOUSE

Station #: D9490000

Hydrologic Unit Code: 03010203

Latitude: 36.04760

Longitude: -76.69611

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 25

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<4	0	0		6.3	7.5	8.2	9.1	10.5	11.6	13
	53	0	<5	0	0		6.3	7.5	8.2	9.1	10.5	11.6	13
pH (SU)	53	0	<6	0	0		6.2	7	7.2	7.5	7.6	7.9	8.9
	53	0	>9	0	0		6.2	7	7.2	7.5	7.6	7.9	8.9
Salinity (ppt)	53	0	N/A				0.03	0.03	0.04	0.2	0.72	1.64	2.39
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				77	88	114	406	1378	3038	4380
Water Temperature (°C)	53	0	>32	0	0		1.7	7.1	10.9	19.3	26.6	29	31.6
Other													
Chlorophyll a (ug/L)	53	5	>40	0	0		1	1	2	6	12	15	37
Hardness (mg/L)	13	0	N/A				24	24	28	37	130	248	300
TSS (mg/L)	19	18	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.8
Turbidity (NTU)	53	0	>50	0	0		1.6	2.7	3.5	4.8	7.3	11.6	15
Nutrients (mg/L)													
NH3 as N	53	31	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.14
NO2 + NO3 as N	53	14	N/A				0.02	0.02	0.02	0.11	0.14	0.21	0.3
TKN as N	53	0	N/A				0.4	0.44	0.52	0.57	0.62	0.73	1.1
Total Phosphorus	53	0	N/A				0.02	0.04	0.05	0.06	0.07	0.09	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	3.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: ALBEMARLE SOUND NR EDENTON MID CHANNEL

Station #: D999500C

Hydrologic Unit Code: 03010205

Latitude: 35.99002

Longitude: -76.60920

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 26

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	53	0	<4	0	0		7.1	7.7	8.4	9.1	10.7	13.3
	53	0	<5	0	0		7.1	7.7	8.4	9.1	10.7	13.3
pH (SU)	53	0	<6	0	0		6.3	7.1	7.4	7.6	7.8	8.5
	53	0	>9	0	0		6.3	7.1	7.4	7.6	7.8	8.5
Salinity (ppt)	53	0	N/A				0.03	0.05	0.16	0.76	1.52	3.59
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				80	117	344	1429	4245	6479
Water Temperature (°C)	53	0	>32	0	0		1.8	7.2	11.2	20.2	26.4	30.1
Other												
Chlorophyll a (ug/L)	53	2	>40	0	0		1	2	6	10	13	19
Hardness (mg/L)	14	0	N/A				32	46	83	130	270	460
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	11.8	28
Turbidity (NTU)	53	0	>50	0	0		2	2.7	3.4	4.7	7.1	22
Nutrients (mg/L)												
NH3 as N	53	40	N/A				0.02	0.02	0.02	0.02	0.02	0.19
NO2 + NO3 as N	53	21	N/A				0.02	0.02	0.02	0.04	0.11	0.31
TKN as N	53	0	N/A				0.36	0.4	0.44	0.48	0.55	0.8
Total Phosphorus	53	0	N/A				0.02	0.03	0.03	0.04	0.05	0.08
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
53	2.7	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND NR EDENTON N SHORE

Station #: D999500N

Hydrologic Unit Code: 03010205

Latitude: 36.04216

Longitude: -76.61279

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 26-1

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<4	0	0		7.3	7.7	8.1	8.8	10.2	12	13.4
	53	0	<5	0	0		7.3	7.7	8.1	8.8	10.2	12	13.4
pH (SU)	53	0	<6	0	0		6.7	7.1	7.3	7.6	7.7	8	8.5
	53	0	>9	0	0		6.7	7.1	7.3	7.6	7.7	8	8.5
Salinity (ppt)	53	0	N/A				0.03	0.05	0.1	0.59	1.37	2.17	3.32
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				86	123	214	1122	2544	3993	6018
Water Temperature (°C)	53	0	>32	0	0		1.4	6.8	11	20.7	27.2	29.3	30.6
Other													
Hardness (mg/L)	13	0	N/A				23	28	40	120	250	396	460
TSS (mg/L)	19	16	N/A				6.2	6.2	6.2	6.2	6.2	12	14
Turbidity (NTU)	53	0	>50	0	0		2	2.6	3.1	4.4	5.9	11	24
Nutrients (mg/L)													
NH3 as N	53	41	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.16
NO2 + NO3 as N	53	25	N/A				0.02	0.02	0.02	0.02	0.11	0.21	0.3
TKN as N	53	0	N/A				0.36	0.43	0.47	0.52	0.56	0.68	0.8
Total Phosphorus	53	0	N/A				0.02	0.03	0.03	0.04	0.06	0.07	0.12
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	3.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND NR EDENTON S SHORE

Station #: D999500S

Hydrologic Unit Code: 03010205

Latitude: 35.94793

Longitude: -76.60793

Stream class: SB

Agency: NCAMBNT

NC stream index: 30

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<5	0	0		6.1	7.4	8.3	9.2	10.8	11.9	13.3
pH (SU)	53	0	<6.8	1	1.9		6.4	7.1	7.3	7.6	7.9	8.2	8.5
Salinity (ppt)	53	0	>8.5	0	0		6.4	7.1	7.3	7.6	7.9	8.2	8.5
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				0.04	0.04	0.16	0.54	1.12	1.99	2.95
Water Temperature (°C)	53	0	>32	0	0		1.7	7.1	10.2	20	26.3	29.4	30.3
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		38	38	38	38	38	38	38
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	7.5	11	12	14
Turbidity (NTU)	53	0	>25	0	0		2.2	2.8	4	6.3	9.9	16.8	24
Nutrients (mg/L)													
NH3 as N	53	35	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.17
NO2 + NO3 as N	53	20	N/A				0.02	0.02	0.02	0.06	0.15	0.21	0.32
TKN as N	53	0	N/A				0.32	0.37	0.44	0.49	0.54	0.63	0.91
Total Phosphorus	53	0	N/A				0.02	0.03	0.03	0.04	0.06	0.07	0.09
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	3.3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

French Broad

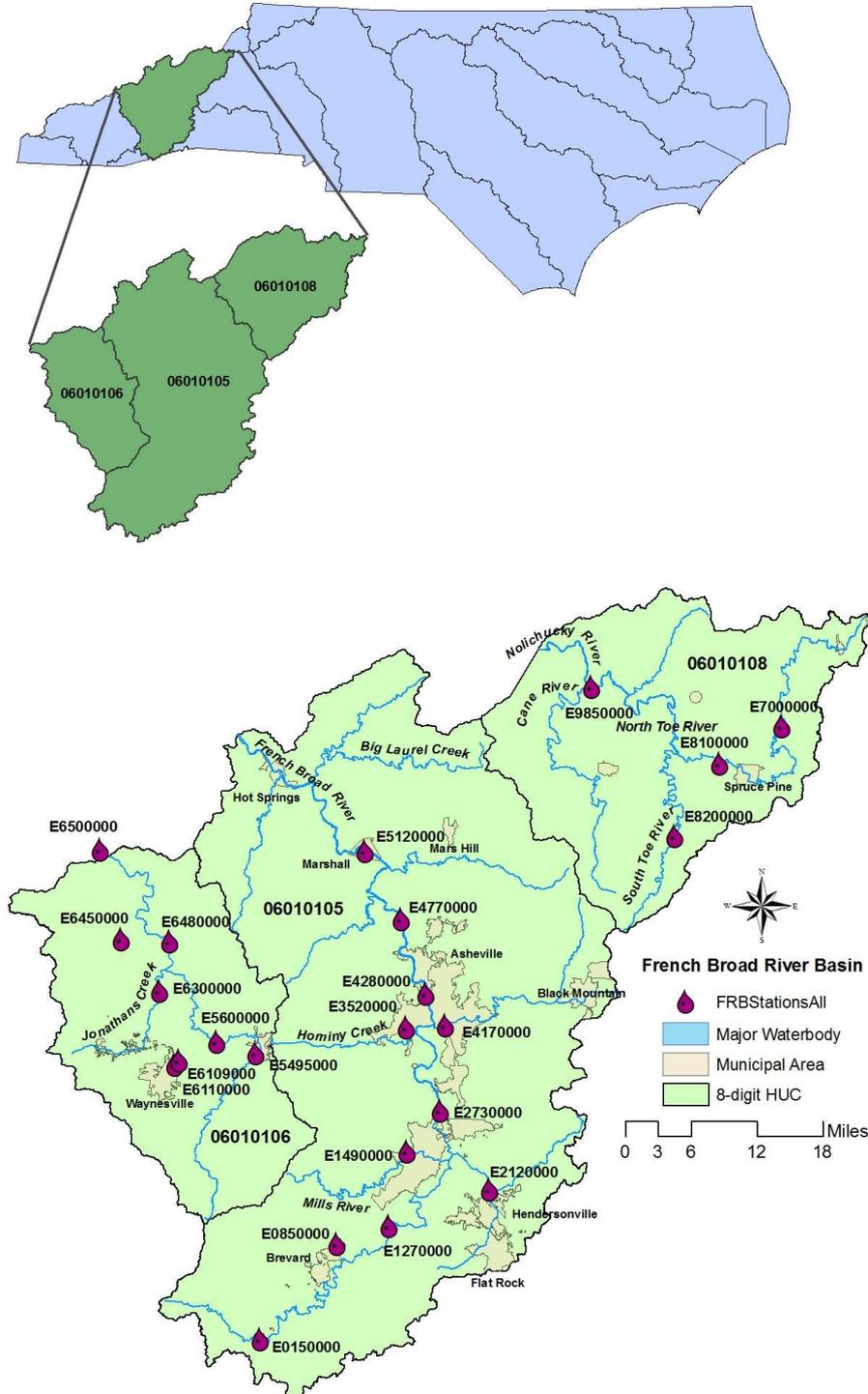


Figure FRB-1. French Broad River basin ambient monitoring station locations, 2009-2013.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table FRB-1. AMS monitoring stations in the French Broad River basin, 2009-2013.

Station	Location	Latitude	Longitude	Stream Class
HUC 06010105: French Broad River				
E0150000	French Broad River at US-178 at Rosman	35.1420	-82.8240	B Tr
E0850000	Davidson River at US-64 near Brevard	35.2730	-82.7060	WS-V B Tr
E1270000	French Broad River at SR-1503 at Blantyre	35.2990	-82.6236	B
E1490000	Mills River at end of SR-1337 near Mills River	35.3988	-82.5988	WS-II Tr HQW
E2120000	Mud Creek at SR-1508 near Balfour	35.3527	-82.4642	C
E2730000	French Broad River at SR-3495 Glenn Bridge Rd near Skyland	35.4549	-82.5474	B
E3520000	Hominy Creek at SR-3413 near Asheville	35.5642	-82.6078	C
E4170000	Swannanoa River at US-25 Biltmore Ave at Asheville	35.5687	-82.5443	C
E4280000	French Broad River at SR-1348 at Asheville (X-ref E3420000)	35.6094	-82.5784	B
E4770000	French Broad River at SR-1634 at Alexander	35.7080	-82.6220	B
E5120000	French Broad River at Blennerhassett Island at Marshall	35.7963	-82.6845	B
HUC 06010106: Pigeon River				
E5495000	Pigeon River at NC-215 near Canton	35.5220	-82.8480	WS-III Tr CA
E5600000	Pigeon River at SR-1642 at Clyde	35.5350	-82.9122	C
E6109000	Richland Creek at Vance St at Waynesville	35.5027	-82.9785	B
E6110000 ¹	Richland Creek at SR-1184 near Waynesville	35.5090	-82.9720	B
E6300000	Jonathans Creek at US-276 near Cove Creek	35.5998	-83.0076	C Tr
E6450000	Cataloochee Creek at SR-1395 near Cataloochee	35.6670	-83.0730	C Tr ORW
E6480000	Pigeon River at SR-1338 near Hepco	35.6660	-82.9950	C
E6500000 ²	Pigeon River at Waterville	35.7851	-83.113	NA
HUC 06010108: Nolichucky River				
E7000000	North Toe River at US-19E near Ingalls	35.9810	-82.0160	WS-IV Tr
E8100000	North Toe River at SR-1162 at Penland	35.9293	-82.1152	C Tr
E8200000	South Toe River at SR-1168 near Celo	35.8310	-82.1840	B Tr ORW
E9850000	Cane River at SR-1343 near Sioux	36.0251	-82.3272	C Tr

1. Sampling at E6110000 was discontinued in 2012.
2. Station E6500000 is located in Tennessee.

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

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: 01/22/2009 to 12/04/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<6	0	0		8.4	8.6	9.3	10.5	11.3	12.3	14.5
pH (SU)	18	0	<6	0	0		6.1	6.1	6.2	6.5	7	7.4	7.5
	18	0	>9	0	0		6.1	6.1	6.2	6.5	7	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				14	14	15	16	18	20	23
Water Temperature (°C)	19	0	>20	2	10.5	42	1.5	4.9	9.3	10.8	15.1	20.4	21.6
	19	0	>29	0	0		1.5	4.9	9.3	10.8	15.1	20.4	21.6
Other													
Hardness (mg/L)	14	0	N/A				3	3	4	5	5	6	7
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	7.2	19	21
Turbidity (NTU)	60	4	>10	5	8.3		1	1.3	1.8	2.7	5	9.5	90
Nutrients (mg/L)													
NH3 as N	58	42	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	58	1	N/A				0.02	0.07	0.08	0.11	0.2	0.3	0.42
TKN as N	58	41	N/A				0.2	0.2	0.2	0.2	0.2	0.27	0.55
Total Phosphorus	58	5	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	38.4	5	8.5										

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DAVIDSON RIV AT US 64 NR BREVARD

Station #: E0850000

Hydrologic Unit Code: 06010105

Latitude: 35.27300

Longitude: -82.70600

Stream class: WS-V B Tr

Agency: NCAMBNT

NC stream index: 6-34-(15.5)

Time period: 01/22/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<6	0	0		7.9	8.6	9	10.8	11.4	13.4	15
pH (SU)	18	0	<6	4	22.2	90.2	5.6	5.6	6	6.2	6.4	6.7	6.8
	18	0	>9	0	0		5.6	5.6	6	6.2	6.4	6.7	6.8
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				12	12	13	13	15	18	18
Water Temperature (°C)	19	0	>20	2	10.5	42	0.2	2.5	8.2	10	15.4	20.5	23
	19	0	>29	0	0		0.2	2.5	8.2	10	15.4	20.5	23
Other													
Hardness (mg/L)	14	0	>100	0	0		2	2	3	4	5	5	6
TSS (mg/L)	19	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.2
Turbidity (NTU)	59	17	>10	4	6.8		1	1	1	1.8	3.1	7.5	37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
59	16.7		1	1.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

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: 01/22/2009 to 12/04/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<4	0	0		7.2	7.4	8.2	10	11.3	13.1	14.2
	19	0	<5	0	0		7.2	7.4	8.2	10	11.3	13.1	14.2
pH (SU)	18	0	<6	1	5.6		5.7	6	6	6.2	6.4	6.9	7
	18	0	>9	0	0		5.7	6	6	6.2	6.4	6.9	7
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				19	19	21	23	24	26	27
Water Temperature (°C)	19	0	>29	0	0		1.3	2.4	6.9	10.3	17.8	19.4	22.4
Other													
Hardness (mg/L)	14	0	N/A				5	5	6	7	7	9	10
TSS (mg/L)	21	4	N/A				6.2	6.2	7.7	14	32	87.8	99
Turbidity (NTU)	59	0	>50	3	5.1		1.2	2.2	3.8	6.8	12	27	80
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				0.15	0.15	0.15	0.15	0.15	0.15	0.15
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
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
63	148.1	10	15.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: MILLS RIV AT END OF SR 1337 NR MILLS RIVER

Station #: E1490000

Hydrologic Unit Code: 06010105

Latitude: 35.39884

Longitude: -82.59492

Stream class: WS-II Tr HQW

Agency: NCAMBNT

NC stream index: 6-54-(1)

Time period: 01/15/2009 to 12/13/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<6	0	0		7.9	8.7	9.3	10.8	12	12.5	13.7
pH (SU)	19	0	<6	7	36.8	99.8	4.5	5.4	5.7	6.2	6.5	6.9	7
	19	0	>9	0	0		4.5	5.4	5.7	6.2	6.5	6.9	7
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				12	12	13	14	16	17	18
Water Temperature (°C)	20	0	>20	3	15	67.6	2.7	4.5	6.2	9.7	16.7	20.5	21.4
	20	0	>29	0	0		2.7	4.5	6.2	9.7	16.7	20.5	21.4
Other													
Hardness (mg/L)	14	0	>100	0	0		3	3	4	5	5	6	7
TSS (mg/L)	21	14	N/A				6.2	6.2	6.2	6.2	9.4	27.2	38
Turbidity (NTU)	59	4	>10	3	5.1		1	1.2	1.7	2.9	4.9	7.6	14
Nutrients (mg/L)													
NH3 as N	56	55	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	56	2	>10	0	0		0.02	0.02	0.03	0.05	0.06	0.07	0.1
TKN as N	56	46	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.36
Total Phosphorus	56	39	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	52.1	5	8.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MUD CRK AT SR 1508 NR BALFOUR

Station #: E2120000

Hydrologic Unit Code: 06010105

Latitude: 35.35267

Longitude: -82.46420

Stream class: C

Agency: NCAMBNT

NC stream index: 6-55

Time period: 01/07/2009 to 12/13/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<4	0	0		7.2	7.6	8.4	10	10.6	12.3	13
	20	0	<5	0	0		7.2	7.6	8.4	10	10.6	12.3	13
pH (SU)	19	0	<6	2	10.5	42	5.8	5.9	6.3	6.5	6.8	6.9	7.1
	19	0	>9	0	0		5.8	5.9	6.3	6.5	6.8	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				27	51	57	61	65	67	69
Water Temperature (°C)	20	0	>29	0	0		2.9	4.9	7	11	17.2	19.1	22.1
Other													
Hardness (mg/L)	14	0	N/A				16	17	18	18	19	20	20
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	6.7	18	74.1	87
Turbidity (NTU)	61	0	>50	3	4.9		1.6	2	3.3	5.3	9.9	23.6	100
Nutrients (mg/L)													
NH3 as N	58	15	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.07
NO2 + NO3 as N	58	0	N/A				0.24	0.45	0.54	0.62	0.7	0.82	0.91
TKN as N	58	11	N/A				0.2	0.2	0.2	0.25	0.31	0.36	0.67
Total Phosphorus	58	0	N/A				0.02	0.02	0.02	0.04	0.05	0.08	0.19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
61	167.3	11	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

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-(54.75)

Time period: 01/15/2009 to 12/13/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<4	0	0		7.1	7.4	8.7	10.2	11.2	13.2	14
	20	0	<5	0	0		7.1	7.4	8.7	10.2	11.2	13.2	14
pH (SU)	19	0	<6	3	15.8	70.5	5.2	5.8	6	6.4	6.8	7.3	7.3
	19	0	>9	0	0		5.2	5.8	6	6.4	6.8	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				28	28	32	37	39	43	46
Water Temperature (°C)	20	0	>29	0	0		3.3	4.9	5.9	11.4	17.2	23.4	24.3
Other													
Hardness (mg/L)	13	0	N/A				8	8	10	11	12	13	14
TSS (mg/L)	20	3	N/A				6.2	6.2	7.3	11	23.2	78.4	94
Turbidity (NTU)	58	0	>50	3	5.2		1.1	2.8	4.6	7.2	16	28.8	190
Nutrients (mg/L)													
NH3 as N	55	32	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.13
NO2 + NO3 as N	55	1	N/A				0.02	0.22	0.25	0.31	0.35	0.37	0.43
TKN as N	55	21	N/A				0.2	0.2	0.2	0.2	0.25	0.4	0.8
Total Phosphorus	55	0	N/A				0.02	0.03	0.04	0.06	0.07	0.11	0.39
Metals (ug/L)													
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Copper, total (Cu)	4	3	>7	0	0		2	2	2	2	3	3	3
Iron, total (Fe)	4	0	>1000	0	0		340	340	350	390	438	450	450
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	8	10	10
Manganese, total (Mn)	4	0	N/A				17	17	18	20	22	22	22
Nickel, total (Ni)	4	3	>88	0	0		2	2	2	2	8	10	10
Zinc, total (Zn)	4	4	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	144.8	9	15.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HOMINY CRK AT SR 3413 NR ASHEVILLE

Station #: E3520000

Hydrologic Unit Code: 06010105

Latitude: 35.56422

Longitude: -82.60777

Stream class: C

Agency: NCAMBNT

NC stream index: 6-76

Time period: 01/07/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	21	0	<4	0	0		7.7	8.2	8.9	9.9	11.5	12.3
	21	0	<5	0	0		7.7	8.2	8.9	9.9	11.5	12.3
pH (SU)	21	0	<6	0	0		6.1	6.3	6.5	6.9	7.1	7.3
	21	0	>9	0	0		6.1	6.3	6.5	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				56	57	62	68	78	85
Water Temperature (°C)	21	0	>29	0	0		5.7	5.9	8.2	11.2	16.7	21.5
Other												
Hardness (mg/L)	14	0	N/A				19	20	21	22	23	32
TSS (mg/L)	22	7	N/A				6.2	6.2	6.2	9	41.2	141.7
Turbidity (NTU)	60	0	>50	8	13.3	75.1	1.7	2.4	3.6	8.6	20.8	87
Nutrients (mg/L)												
NH3 as N	58	29	N/A				0.02	0.02	0.02	0.02	0.04	0.08
NO2 + NO3 as N	58	0	N/A				0.04	0.4	0.42	0.51	0.56	0.67
TKN as N	58	22	N/A				0.2	0.2	0.2	0.2	0.29	0.56
Total Phosphorus	58	4	N/A				0.02	0.02	0.02	0.03	0.05	0.19
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	205.7	17	28.3	92.2								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

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: 01/05/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<4	0	0		7.8	7.8	8.8	10.6	11.4	12.8	15.7
	20	0	<5	0	0		7.8	7.8	8.8	10.6	11.4	12.8	15.7
pH (SU)	20	0	<6	2	10		5.4	5.5	6.4	6.8	7.1	7.3	7.7
	20	0	>9	0	0		5.4	5.5	6.4	6.8	7.1	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				33	38	50	66	78	83	85
Water Temperature (°C)	20	0	>29	0	0		0.2	4.8	7.6	10.6	17.8	22.8	24.3
Other													
Hardness (mg/L)	14	0	N/A				14	15	17	24	29	38	47
TSS (mg/L)	21	12	N/A				6.2	6.2	6.2	6.2	21	101.4	174
Turbidity (NTU)	59	0	>50	4	6.8		1.1	1.8	2.4	4.3	10	23	150
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:	%Conf:								
59	173.5		12	20.3	47.3								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

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-(54.75)

Time period: 01/07/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<4	0	0		7.5	7.6	8.7	9.9	11.2	12	14.9
	20	0	<5	0	0		7.5	7.6	8.7	9.9	11.2	12	14.9
pH (SU)	19	0	<6	0	0		6.1	6.2	6.3	6.5	7	7.4	7.6
	19	0	>9	0	0		6.1	6.2	6.3	6.5	7	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				32	35	39	42	51	57	65
Water Temperature (°C)	20	0	>29	0	0		1.6	6.1	8.4	11.2	17.6	22.1	24.1
Other													
Hardness (mg/L)	14	0	N/A				9	10	12	14	15	18	18
TSS (mg/L)	20	5	N/A				6.2	6.2	6.4	16	55	145.3	294
Turbidity (NTU)	59	0	>50	7	11.9	62.2	1.6	2.8	4.1	11	19	60	110
Nutrients (mg/L)													
NH3 as N	58	28	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.34
NO2 + NO3 as N	58	0	N/A				0.04	0.21	0.29	0.32	0.37	0.42	0.53
TKN as N	58	16	N/A				0.2	0.2	0.2	0.23	0.32	0.5	0.93
Total Phosphorus	58	1	N/A				0.02	0.03	0.03	0.05	0.07	0.15	0.36
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
63	136.6	15	23.8	73.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

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-(54.75)

Time period: 01/06/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<4	0	0		7.6	7.7	8.7	10.8	12.1	12.7	13.1
	20	0	<5	0	0		7.6	7.7	8.7	10.8	12.1	12.7	13.1
pH (SU)	20	0	<6	0	0		6.1	6.2	6.3	6.8	7.4	7.7	7.8
	20	0	>9	0	0		6.1	6.2	6.3	6.8	7.4	7.7	7.8
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				39	41	44	52	61	66	69
Water Temperature (°C)	20	0	>29	0	0		5.4	5.9	7.1	10.6	19.2	23.7	26.3
Other													
Hardness (mg/L)	14	0	N/A				12	12	14	16	17	24	25
TSS (mg/L)	21	5	N/A				6.2	6.2	7.1	17	34.5	90	186
Turbidity (NTU)	59	0	>50	7	11.9	62.2	1.4	3.1	6.1	12	21	55	100
Nutrients (mg/L)													
NH3 as N	57	2	N/A				0.02	0.07	0.11	0.14	0.19	0.25	0.3
NO2 + NO3 as N	57	0	N/A				0.18	0.34	0.39	0.44	0.54	0.72	0.92
TKN as N	57	2	N/A				0.2	0.3	0.36	0.46	0.53	0.67	2
Total Phosphorus	57	0	N/A				0.03	0.06	0.08	0.11	0.17	0.2	0.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
63	85.7	13	20.6	49.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

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-(54.75)

Time period: 01/06/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	20	0	<4	0	0		7.2	7.6	8.9	10.7	12.3	13.1
	20	0	<5	0	0		7.2	7.6	8.9	10.7	12.3	13.1
pH (SU)	20	0	<6	0	0		6.2	6.2	6.5	6.8	7.3	7.9
	20	0	>9	0	0		6.2	6.2	6.5	6.8	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				38	43	46	54	68	75
Water Temperature (°C)	20	0	>29	0	0		5.1	5.3	6.4	11.7	17.6	24.3
Other												
Hardness (mg/L)	14	0	N/A				6	10	16	17	19	23
TSS (mg/L)	20	4	N/A				6.2	6.2	10.1	12.5	37.2	254
Turbidity (NTU)	60	0	>50	9	15	85.8	1.5	2.9	5.2	12	25.5	160
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	100.1	14	23.3	69.4								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PIGEON RIV AT NC 215 NR CANTON

Station #: E5495000

Hydrologic Unit Code: 06010106

Latitude: 35.52200

Longitude: -82.84800

Stream class: WS-III Tr CA

Agency: NCAMBNT

NC stream index: 5-(6.5)

Time period: 01/26/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<6	0	0		7.3	8.4	9.8	10.7	12.2	12.8	13.5
pH (SU)	19	0	<6	2	10.5	42	5.6	5.9	6	6.4	6.7	7	7.1
	19	0	>9	0	0		5.6	5.9	6	6.4	6.7	7	7.1
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				14	16	20	21	22	28	37
Water Temperature (°C)	19	0	>20	2	10.5	42	4.8	4.9	5.4	9.6	14.9	20.3	22.3
	19	0	>29	0	0		4.8	4.9	5.4	9.6	14.9	20.3	22.3
Other													
Hardness (mg/L)	14	0	>100	0	0		4	4	6	7	7	9	9
TSS (mg/L)	21	18	N/A				6.2	6.2	6.2	6.2	6.2	7.3	8.5
Turbidity (NTU)	60	12	>10	7	11.7	60.5	1	1	1.1	1.8	3	12	110
Nutrients (mg/L)													
NH3 as N	59	56	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	59	0	>10	0	0		0.04	0.11	0.16	0.18	0.22	0.26	0.32
TKN as N	59	48	N/A				0.2	0.2	0.2	0.2	0.2	0.21	0.82
Total Phosphorus	59	45	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.35
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	66.2	5	8.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PIGEON RIV AT SR 1642 AT CLYDE

Station #: E5600000

Hydrologic Unit Code: 06010106

Latitude: 35.53502

Longitude: -82.91218

Stream class: C

Agency: NCAMBNT

NC stream index: 5-(7)

Time period: 01/26/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	18	0	<4	0	0		7.2	7.4	9.1	10.2	11.6	12.3	12.6
	18	0	<5	0	0		7.2	7.4	9.1	10.2	11.6	12.3	12.6
pH (SU)	18	0	<6	0	0		6.3	6.8	7.3	7.4	7.8	8.2	8.4
	18	0	>9	0	0		6.3	6.8	7.3	7.4	7.8	8.2	8.4
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				88	114	222	330	648	940	989
Water Temperature (°C)	18	0	>29	0	0		5.4	6.7	9.1	11.9	16.4	25.3	26.8
Other													
Hardness (mg/L)	14	0	N/A				14	14	19	30	50	72	89
TSS (mg/L)	21	13	N/A				6.2	6.2	6.2	6.2	7.5	14.2	41
Turbidity (NTU)	60	1	>50	2	3.3		1	2.1	2.8	3.5	5.7	16.9	290
Nutrients (mg/L)													
NH3 as N	59	38	N/A				0.02	0.02	0.02	0.02	0.03	0.08	0.31
NO2 + NO3 as N	59	0	N/A				0.09	0.13	0.18	0.22	0.26	0.3	0.36
TKN as N	59	7	N/A				0.2	0.2	0.24	0.34	0.48	0.66	2.6
Total Phosphorus	59	0	N/A				0.04	0.06	0.09	0.13	0.19	0.3	1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	136	11	18.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: RICHLAND CRK AT VANCE ST AT WAYNESVILLE

Station #: E6109000

Hydrologic Unit Code: 06010106

Latitude: 35.50270

Longitude: -82.97851

Stream class: B

Agency: NCAMBNT

NC stream index: 5-16-(11.5)

Time period: 06/28/2012 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	3	0	<4	0	0		10	10	10	10.1	11.4	11.4
	3	0	<5	0	0		10	10	10	10.1	11.4	11.4
pH (SU)	3	0	<6	0	0		7	7	7	7.1	7.7	7.7
	3	0	>9	0	0		7	7	7	7.1	7.7	7.7
Spec. conductance (umhos/cm at 25°C)	3	0	N/A				41	41	41	62	62	62
Water Temperature (°C)	3	0	>29	0	0		8.8	8.8	8.8	11.1	13.9	13.9
Other												
Hardness (mg/L)	7	0	N/A				14	14	15	16	16	21
TSS (mg/L)	7	1	N/A				6.2	6.2	6.3	9	23	33
Turbidity (NTU)	19	1	>50	0	0		1	1.3	3.5	4.3	6.6	27
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:		# > 400:	% > 400:		%Conf:						
19	175.5		3	15.8								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

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: 01/08/2009 to 05/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	15	0	<4	0	0		7.4	7.9	9.1	11	12	12.7	12.7
	15	0	<5	0	0		7.4	7.9	9.1	11	12	12.7	12.7
pH (SU)	15	0	<6	0	0		6	6	6.1	6.5	6.9	7.2	7.2
	15	0	>9	0	0		6	6	6.1	6.5	6.9	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	15	0	N/A				28	33	41	45	53	57	60
Water Temperature (°C)	15	0	>29	0	0		4.8	5.7	7.3	9.5	15.3	20.1	21.4
Other													
Hardness (mg/L)	7	0	N/A				12	12	13	19	25	28	28
TSS (mg/L)	13	3	N/A				6.2	6.2	6.2	9.8	12	20.6	21
Turbidity (NTU)	40	0	>50	2	5		1.4	2.7	3.7	6.1	8.3	31.9	320
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:	%Conf:								
40	206.8		9	22.5	59.3								

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

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: 01/26/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	18	0	<6	0	0		8.1	8.6	9.7	10.6	12	12.7	13.2
pH (SU)	18	0	<6	0	0		6	6	6.1	6.6	6.9	7.1	7.5
	18	0	>9	0	0		6	6	6.1	6.6	6.9	7.1	7.5
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				35	35	37	39	43	48	56
Water Temperature (°C)	18	0	>20	0	0		4.4	4.5	6.4	10.2	13.4	17.8	19.7
	18	0	>29	0	0		4.4	4.5	6.4	10.2	13.4	17.8	19.7
Other													
Hardness (mg/L)	14	0	N/A				10	10	11	13	14	23	29
TSS (mg/L)	20	5	N/A				6.2	6.2	6.4	9.5	12.8	100.8	287
Turbidity (NTU)	57	1	>10	7	12.3	65.6	1	1.5	3.1	5.4	7.4	17.2	160
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	225.5	15	26.3	84.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

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: 01/26/2009 to 11/13/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	15	0	<6	0	0		8.8	9	9.9	10.6	11.1	12.7	12.9
pH (SU)	15	0	<6	3	20	81.6	5.1	5.2	6	6.2	6.5	6.8	7
	15	0	>9	0	0		5.1	5.2	6	6.2	6.5	6.8	7
Spec. conductance (umhos/cm at 25°C)	15	0	N/A				12	13	14	15	16	17	17
Water Temperature (°C)	15	0	>20	0	0		3.1	4.1	7.7	9.8	13.3	17.2	18.4
	15	0	>29	0	0		3.1	4.1	7.7	9.8	13.3	17.2	18.4
Other													
Hardness (mg/L)	11	0	N/A				3	3	4	5	5	7	8
TSS (mg/L)	17	12	N/A				6.2	6.2	6.2	6.2	8.3	19	27
Turbidity (NTU)	50	7	>10	2	4		1	1	1.3	2.1	3.6	6.9	90
Nutrients (mg/L)													
NH3 as N	47	46	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.12
NO2 + NO3 as N	47	3	N/A				0.02	0.02	0.12	0.18	0.2	0.22	0.56
TKN as N	47	37	N/A				0.2	0.2	0.2	0.2	0.2	0.22	0.48
Total Phosphorus	47	18	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.12
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
50	8.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PIGEON RIV AT SR 1338 NR HEPCO

Station #: E6480000

Hydrologic Unit Code: 06010106

Latitude: 35.66600

Longitude: -82.99500

Stream class: C

Agency: NCAMBNT

NC stream index: 5-(7)

Time period: 01/26/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	17	0	<4	0	0		7.4	7.9	8.5	10.3	11.8	12.8	13.5
	17	0	<5	0	0		7.4	7.9	8.5	10.3	11.8	12.8	13.5
pH (SU)	17	0	<6	0	0		6.5	6.7	7	7.3	7.9	8.2	8.4
	17	0	>9	0	0		6.5	6.7	7	7.3	7.9	8.2	8.4
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				88	101	146	218	404	512	754
Water Temperature (°C)	17	0	>29	0	0		4.6	5.2	6.9	12	20.1	23.8	24.8
Other													
Hardness (mg/L)	13	0	N/A				18	18	18	25	32	39	40
TSS (mg/L)	18	6	N/A				6.2	6.2	6.2	8	18.2	37.3	94
Turbidity (NTU)	57	0	>50	3	5.3		1.1	2.4	3.2	5.3	8.3	17.4	380
Nutrients (mg/L)													
NH3 as N	56	34	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.18
NO2 + NO3 as N	56	0	N/A				0.27	0.31	0.34	0.41	0.51	0.6	0.72
TKN as N	56	2	N/A				0.2	0.21	0.25	0.32	0.38	0.45	3.7
Total Phosphorus	56	0	N/A				0.04	0.06	0.07	0.09	0.15	0.19	1.5
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	175.6	12	21.1	52.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PIGEON RIV AT WATERVILLE

Station #: E6500000

Hydrologic Unit Code: 06010106

Latitude: 35.78506

Longitude: -83.11300

Stream class: NA

Agency: NCAMBNT

NC stream index: N/A

Time period: 01/26/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	13	0	N/A				5.7	6.1	7.6	10	11.2	12.7	12.9
pH (SU)	13	0	N/A				6.5	6.5	6.6	6.7	7.2	7.8	7.9
Spec. conductance (umhos/cm at 25°C)	13	0	N/A				27	53	102	160	198	319	379
Water Temperature (°C)	13	0	N/A				3.5	4.3	8.1	12.1	21.4	22.6	22.8
Other													
Hardness (mg/L)	14	0	N/A				7	9	14	17	22	26	26
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	6.2	6.5	9
Turbidity (NTU)	53	1	N/A				1	1.5	2.5	3.3	4	7.9	15

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
53	40.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: N TOE RIV AT US 19E NR INGALLS

Station #: E7000000

Hydrologic Unit Code: 06010108

Latitude: 35.98100

Longitude: -82.01601

Stream class: WS-IV Tr

Agency: NCAMBNT

NC stream index: 7-2-(21.5)

Time period: 01/28/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<6	0	0		8.3	8.4	10.1	11.5	12.3	12.7	13.4
pH (SU)	19	0	<6	2	10.5	42	5.6	5.8	6.5	6.8	7.2	7.4	7.7
	19	0	>9	0	0		5.6	5.8	6.5	6.8	7.2	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				41	45	48	52	58	70	79
Water Temperature (°C)	19	0	>20	2	10.5	42	3	3.7	4.6	8.7	12.9	20.5	21.4
	19	0	>29	0	0		3	3.7	4.6	8.7	12.9	20.5	21.4
Other													
Chloride (mg/L)	57	0	>230	0	0		3	4	5	5	6	8	39
Fluoride (mg/L)	57	57	>1.8	0	0		0.2	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	14	0	>100	0	0		13	14	14	16	17	20	21
Sulfate (mg/L)	57	48	>250	0	0		1	2	2	2	2	2	3
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	11.7	17.9	35
Turbidity (NTU)	57	1	>10	11	19.3	97.6	1	1.4	2.1	4	8.2	19.2	40
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	38.9	4	7.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: N TOE RIV AT SR 1162 AT PENLAND

Station #: E8100000

Hydrologic Unit Code: 06010108

Latitude: 35.92929

Longitude: -82.11521

Stream class: C Tr

Agency: NCAMBNT

NC stream index: 7-2-(27.7)

Time period: 01/28/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	19	0	<6	0	0		7.7	8.4	9.9	11.1	12.3	13.2	13.6
pH (SU)	19	0	<6	1	5.3		5.6	6.1	6.6	6.9	7.2	7.3	7.5
	19	0	>9	0	0		5.6	6.1	6.6	6.9	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				51	51	61	79	94	117	119
Water Temperature (°C)	19	0	>20	4	21.1	88.5	3	4.1	5.4	9.9	14.1	22.9	23.5
	19	0	>29	0	0		3	4.1	5.4	9.9	14.1	22.9	23.5
Other													
Chloride (mg/L)	57	0	>230	0	0		3	5	6	7	8	10	16
Fluoride (mg/L)	57	25	>1.8	0	0		0.2	0.4	0.4	0.4	0.65	0.82	1.4
Hardness (mg/L)	14	0	N/A				22	22	24	31	38	68	80
Sulfate (mg/L)	57	1	N/A				2	4	6	10	18	26	60
TSS (mg/L)	21	11	N/A				6.2	6.2	6.2	6.2	22	82.6	310
Turbidity (NTU)	57	2	>10	16	28.1	> 99.9	1	1.5	2.5	3.6	11	29	170

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
56	59.4	7	12.5	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S TOE RIV AT SR 1168 NR CELO

Station #: E8200000

Hydrologic Unit Code: 06010108

Latitude: 35.83100

Longitude: -82.18401

Stream class: B Tr ORW

Agency: NCAMBNT

NC stream index: 7-2-52-(1)

Time period: 01/28/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<6	0	0		8.5	8.5	9.9	10.8	12	12.3	12.8
pH (SU)	18	0	<6	6	33.3	99.4	5.1	5.5	5.9	6.1	6.4	6.8	6.9
	18	0	>9	0	0		5.1	5.5	5.9	6.1	6.4	6.8	6.9
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				13	13	13	16	18	19	19
Water Temperature (°C)	20	0	>20	3	15	67.6	3.7	4.4	5.2	8.8	12.9	20.7	21.5
	20	0	>29	0	0		3.7	4.4	5.2	8.8	12.9	20.7	21.5
Other													
Hardness (mg/L)	14	0	N/A				3	4	4	5	5	5	5
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.5
Turbidity (NTU)	58	27	>10	2	3.4		1	1	1	1.1	2.1	3.2	11
Nutrients (mg/L)													
NH3 as N	55	55	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	55	4	N/A				0.02	0.02	0.06	0.08	0.1	0.13	0.26
TKN as N	55	50	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.4
Total Phosphorus	55	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	17.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CANE RIV AT SR 1343 NR SIOUX

Station #: E9850000

Hydrologic Unit Code: 06010108

Latitude: 36.02505

Longitude: -82.32715

Stream class: C Tr

Agency: NCAMBNT

NC stream index: 7-3-(13.7)

Time period: 01/06/2009 to 11/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	18	0	<6	0	0		8.6	8.8	9.8	11.2	12	13.9	14.2
pH (SU)	18	0	<6	0	0		6.1	6.3	6.6	7	7.5	8.5	8.6
	18	0	>9	0	0		6.1	6.3	6.6	7	7.5	8.5	8.6
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				38	38	46	52	60	63	64
Water Temperature (°C)	18	0	>20	3	16.7	73.3	2.4	4.8	7.3	11.8	17.6	22.2	25.7
	18	0	>29	0	0		2.4	4.8	7.3	11.8	17.6	22.2	25.7
Other													
Hardness (mg/L)	15	0	N/A				9	12	15	17	19	21	22
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.2	17.5	32.8	89
Turbidity (NTU)	56	3	>10	14	25	99.9	1	1.6	2.7	5.5	12	18.3	70
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
55	58.5		5	9.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Hiwassee

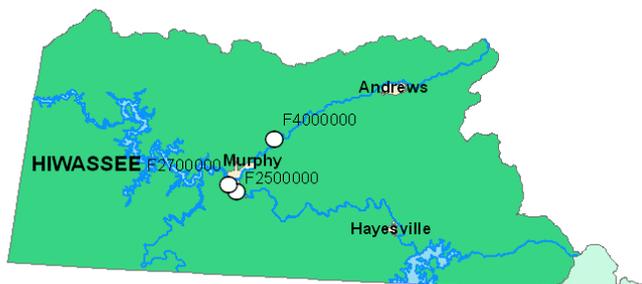


Figure HIW-1. Hiwassee River basin ambient monitoring station locations, 2009-2013.

Table HIW-1. AMS monitoring stations in the Hiwassee River basin, 2009-2013.

Station	Location	Latitude	Longitude	Stream Class
Hiwassee River Basin HUC 06020002: Hiwassee River				
F2500000	Hiwassee River at US 64 at Murphy	35.1222	-83.3743	WS-V
F2700000	Hiwassee River at US 19 BUS at Murphy	35.2349	-83.3958	C
F4000000	Valley River at US 74/19/129 at Tomotla	35.0942	-83.5599	C Tr

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HIWASSEE RIV AT US 64 AT MURPHY

Station #: F2500000

Hydrologic Unit Code: 06020002

Latitude: 35.07840

Longitude: -84.02600

Stream class: WS-V

Agency: NCAMBNT

NC stream index: 1-(43.7)

Time period: 01/25/2010 to 01/25/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	1	0	<4	0	0		11.4	11.4	11.4	11.4	11.4	11.4
	1	0	<5	0	0		11.4	11.4	11.4	11.4	11.4	11.4
pH (SU)	1	0	<6	0	0		6.1	6.1	6.1	6.1	6.1	6.1
	1	0	>9	0	0		6.1	6.1	6.1	6.1	6.1	6.1
Spec. conductance (umhos/cm at 25°C)	1	0	N/A				23	23	23	23	23	23
Water Temperature (°C)	1	0	>29	0	0		8.9	8.9	8.9	8.9	8.9	8.9
Other												
TSS (mg/L)	1	0	N/A				58	58	58	58	58	58
Turbidity (NTU)	1	0	>50	0	0		32	32	32	32	32	32
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	>10	0	0		0.22	0.22	0.22	0.22	0.22	0.22
TKN as N	1	0	N/A				0.25	0.25	0.25	0.25	0.25	0.25
Total Phosphorus	1	0	N/A				0.07	0.07	0.07	0.07	0.07	0.07
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
1	200	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HIWASSEE RIV AT US 19 BUS AT MURPHY

Station #: F2700000

Hydrologic Unit Code: 06020002

Latitude: 35.08530

Longitude: -84.03690

Stream class: C

Agency: NCAMBNT

NC stream index: 1-(50)

Time period: 01/29/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	14	0	<4	0	0		7.8	8.2	9.2	10.2	11.5	12.7	12.7
	14	0	<5	0	0		7.8	8.2	9.2	10.2	11.5	12.7	12.7
pH (SU)	16	0	<6	0	0		6.1	6.2	6.4	6.5	7.3	7.7	8.2
	16	0	>9	0	0		6.1	6.2	6.4	6.5	7.3	7.7	8.2
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				23	24	26	28	30	32	35
Water Temperature (°C)	17	0	>29	0	0		6.4	6.8	9	13.5	17.4	21.8	25.4
Other													
Hardness (mg/L)	14	0	N/A				7	7	8	8	9	10	11
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	6.4	9.7	12
Turbidity (NTU)	54	0	>50	0	0		1.4	1.8	2.5	3.9	6	9.9	50
Nutrients (mg/L)													
NH3 as N	53	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	53	0	N/A				0.02	0.04	0.09	0.1	0.13	0.16	0.17
TKN as N	53	36	N/A				0.2	0.2	0.2	0.2	0.2	0.24	0.29
Total Phosphorus	52	21	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
52	43.9	4	7.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: VALLEY RIV AT US 74 AND 19 AND 129 AT TOMOTLA

Station #: F4000000

Hydrologic Unit Code: 06020002

Latitude: 35.13728

Longitude: -83.97960

Stream class: C Tr

Agency: NCAMBNT

NC stream index: 1-52

Time period: 01/29/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	15	0	<6	0	0		8	8.2	8.5	10.6	11.4	13.1	13.7
pH (SU)	17	0	<6	0	0		6.1	6.2	6.4	7	7.1	7.6	7.8
	17	0	>9	0	0		6.1	6.2	6.4	7	7.1	7.6	7.8
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				28	30	39	44	50	59	62
Water Temperature (°C)	18	0	>20	3	16.7	73.3	4.3	5.8	8.4	12.3	16.2	20.4	21.8
	18	0	>29	0	0		4.3	5.8	8.4	12.3	16.2	20.4	21.8
Other													
Hardness (mg/L)	14	0	N/A				13	13	15	20	24	28	31
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	10.5	38.7	68
Turbidity (NTU)	54	2	>10	5	9.3		1	1.6	2.4	3.8	6.8	11	34
Nutrients (mg/L)													
NH3 as N	53	45	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	53	0	N/A				0.16	0.21	0.24	0.29	0.33	0.36	0.38
TKN as N	53	25	N/A				0.2	0.2	0.2	0.2	0.23	0.27	0.47
Total Phosphorus	52	4	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	213	16	30.2	94.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Little Tennessee

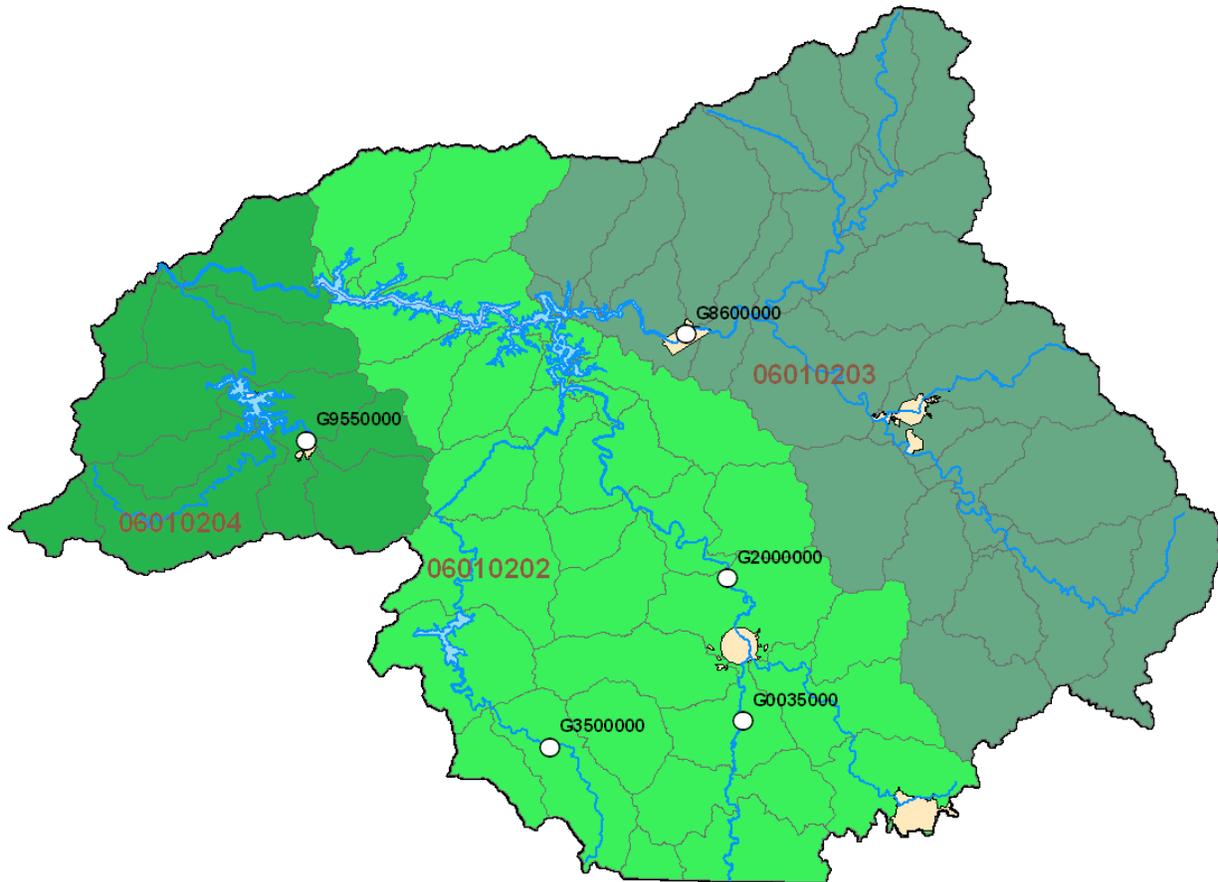


Figure LTN-1. Little Tennessee River basin ambient monitoring station locations, 2009-2013.

Table LTN-1. AMS monitoring stations in the Little Tennessee River basin, 2009-2013.

Station	Location	Stream Class	Latitude	Longitude
HUC 06010202: Little Tennessee River				
G0035000	Little Tennessee River at SR 1651 near Prentiss	C	35.1222	-83.3743
G2000000	Little Tennessee River at NC 28 at Iotla	B	35.2349	-83.3958
G3500000	Natahala River at US 64 near Rainbow Springs	B Tr ORW	35.0942	-83.5599
HUC 06010203: Tuckasegee River				
G8600000	Tuckasegee River at SR 1364 at Bryson City	B	35.4284	-83.4460
HUC 06010204: Lower Little Tennessee River				
G9550000	Cheoah River at SR 1138 at Robbinsville	C Tr	35.3291	-83.8098

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE TENNESSEE RIV AT SR 1651 NR PRENTISS

Station #: G0035000

Hydrologic Unit Code: 06010202

Latitude: 35.12215

Longitude: -83.37432

Stream class: C

Agency: NCAMBNT

NC stream index: 2-(1)

Time period: 01/29/2009 to 12/16/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<4	0	0		7.8	7.8	8.8	10.1	11.5	11.8	11.9
	19	0	<5	0	0		7.8	7.8	8.8	10.1	11.5	11.8	11.9
pH (SU)	20	0	<6	1	5		5.9	6	6.2	6.4	6.7	7	7.1
	20	0	>9	0	0		5.9	6	6.2	6.4	6.7	7	7.1
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				20	20	21	23	25	27	28
Water Temperature (°C)	20	0	>29	0	0		3.1	6	6.8	11.7	14.9	21.7	22.2
Other													
Hardness (mg/L)	14	0	N/A				5	6	8	8	10	11	11
TSS (mg/L)	20	3	N/A				6.2	6.2	7	9.9	22.2	55.4	99
Turbidity (NTU)	59	0	>50	1	1.7		1.3	2.5	3.4	5.5	12	22	85
Nutrients (mg/L)													
NH3 as N	5	5	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	5	0	N/A				0.1	0.1	0.11	0.12	0.12	0.13	0.13
TKN as N	5	5	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total Phosphorus	5	0	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	99.9	8	13.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE TENNESSEE RIV AT NC 28 AT IOTLA

Station #: G2000000

Hydrologic Unit Code: 06010202

Latitude: 35.23490

Longitude: -83.39579

Stream class: B

Agency: NCAMBNT

NC stream index: 2-(26.5)

Time period: 01/29/2009 to 12/16/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<4	0	0		7.4	8.1	8.8	10.9	12	12.1	12.2
	19	0	<5	0	0		7.4	8.1	8.8	10.9	12	12.1	12.2
pH (SU)	20	0	<6	1	5		5	6	6.1	6.5	7	7.6	7.9
	20	0	>9	0	0		5	6	6.1	6.5	7	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				24	24	26	29	33	36	36
Water Temperature (°C)	20	0	>29	0	0		3	6.6	7.6	11.4	16.2	24.2	25.1
Other													
Hardness (mg/L)	14	0	N/A				5	6	8	9	11	13	14
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.8	15.5	36	50
Turbidity (NTU)	58	1	>50	2	3.4		1	2.4	3.9	6	9.9	21.7	100
Nutrients (mg/L)													
NH3 as N	58	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
NO2 + NO3 as N	58	0	N/A				0.02	0.09	0.11	0.13	0.17	0.19	0.29
TKN as N	58	34	N/A				0.2	0.2	0.2	0.2	0.2	0.25	0.49
Total Phosphorus	58	9	N/A				0.02	0.02	0.02	0.03	0.03	0.07	0.16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	57.9	5	8.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NANTAHALA RIV AT US 64 NR RAINBOW SPRINGS

Station #: G3500000

Hydrologic Unit Code: 06010202

Latitude: 35.09422

Longitude: -83.55992

Stream class: B Tr ORW

Agency: NCAMBNT

NC stream index: 2-57-(0.5)

Time period: 01/29/2009 to 12/16/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<6	0	0		8.5	8.5	9.2	10.1	11.3	11.7	12.3
pH (SU)	20	0	<6	2	10		5.4	5.6	6.1	6.3	6.5	6.8	6.9
	20	0	>9	0	0		5.4	5.6	6.1	6.3	6.5	6.8	6.9
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				10	11	11	12	14	16	16
Water Temperature (°C)	20	0	>20	0	0		1.7	4.3	6	9.2	12.3	17.8	18
	20	0	>29	0	0		1.7	4.3	6	9.2	12.3	17.8	18
Other													
Hardness (mg/L)	14	0	N/A				2	2	4	4	5	20	35
TSS (mg/L)	21	18	N/A				6.2	6.2	6.2	6.2	6.2	12	19
Turbidity (NTU)	59	15	>10	1	1.7		1	1	1	1.7	2.6	4.2	11
Nutrients (mg/L)													
NH3 as N	59	57	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	59	20	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.5
TKN as N	59	50	N/A				0.2	0.2	0.2	0.2	0.2	0.22	0.42
Total Phosphorus	59	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.06
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	14.2	2	3.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TUCKASEGEE RIV AT SR 1364 AT BRYSON CITY

Station #: G8600000

Hydrologic Unit Code: 06010203

Latitude: 35.42835

Longitude: -83.44595

Stream class: B

Agency: NCAMBNT

NC stream index: 2-79-(40.5)

Time period: 01/08/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	17	0	<4	0	0		7.3	8.1	9.5	10.9	12.1	12.9	13.8
	17	0	<5	0	0		7.3	8.1	9.5	10.9	12.1	12.9	13.8
pH (SU)	19	0	<6	2	10.5	42	5.6	5.8	6.3	6.4	7	7.5	8.4
	19	0	>9	0	0		5.6	5.8	6.3	6.4	7	7.5	8.4
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				21	21	22	23	25	31	44
Water Temperature (°C)	19	0	>29	0	0		3.5	5.6	7.5	11.3	15	23	25.9
Other													
Hardness (mg/L)	16	1	N/A				1	5	7	7	9	11	12
TSS (mg/L)	22	8	N/A				6.2	6.2	6.2	7.6	17	62	72
Turbidity (NTU)	57	2	>50	0	0		1	1.5	2.6	4	8	19.4	40
Nutrients (mg/L)													
NH3 as N	54	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	54	0	N/A				0.02	0.1	0.12	0.15	0.17	0.2	0.5
TKN as N	54	33	N/A				0.2	0.2	0.2	0.2	0.2	0.28	0.54
Total Phosphorus	53	7	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	53.3	6	10.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CHEOAH RIV AT SR 1138 AT ROBBINSVILLE

Station #: G9550000

Hydrologic Unit Code: 06010204

Latitude: 35.32910

Longitude: -83.80976

Stream class: C Tr

Agency: NCAMBNT

NC stream index: 2-190-(3.5)

Time period: 01/29/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	16	0	<6	0	0		8	8.1	8.6	9.9	11.3	12.4	12.7
pH (SU)	16	0	<6	0	0		6	6.1	6.2	6.5	7	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	16	0	>9	0	0		6	6.1	6.2	6.5	7	7.2	7.3
Water Temperature (°C)	17	0	>20	2	11.8	48.1	5	5.8	8.2	12.8	17.9	21.2	22.6
	17	0	>29	0	0		5	5.8	8.2	12.8	17.9	21.2	22.6
Other													
Hardness (mg/L)	14	0	N/A				8	8	9	12	13	14	14
TSS (mg/L)	21	16	N/A				6.2	6.2	6.2	6.2	7.1	20.2	32
Turbidity (NTU)	52	2	>10	3	5.8		1	1.3	2	2.8	4.1	6.7	25
Nutrients (mg/L)													
NH3 as N	51	48	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	51	0	N/A				0.02	0.05	0.1	0.12	0.14	0.18	0.22
TKN as N	51	41	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.28
Total Phosphorus	50	22	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.05
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
50	83.4	4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Lumber

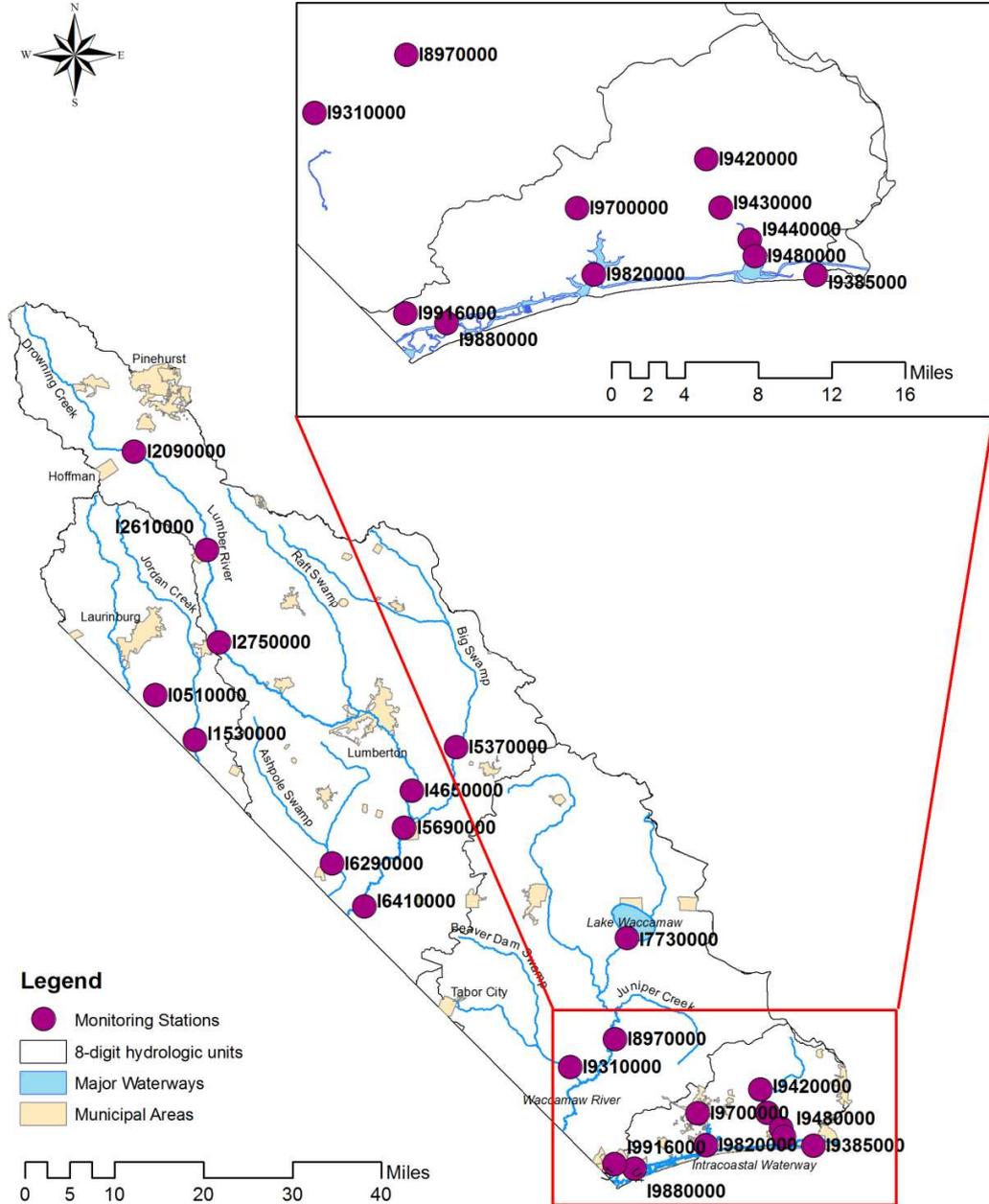


Figure LBR-1. Lumber River basin ambient monitoring station locations, 2009-2013.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table LBR-1. AMS monitoring stations in the Lumber River basin, 2009-2013.

Station	Location	Latitude	Longitude	Stream Class
HUC 03040203: Lumber River				
I2090000	Drowning Creek at US-1 near Hoffman	35.0610	-79.4939	C Sw HQW
I2610000	Lumber River at US-401 near Wagram	34.9003	-79.3490	WS-IV B Sw HQW
I2750000	Lumber River at SR-1303 near Maxton	34.7470	-79.3246	B Sw HQW
I4650000	Lumber River at SR-2121 near Kingsdale	34.5040	-78.9444	C Sw
I5370000	Big Swamp at NC-211 near Richardson	34.5749	-78.8572	C Sw
I5690000	Lumber River at US-74 at Boardman	34.4430	-78.9596	C Sw
I6290000	Ashpole Swamp at SR-2258 near Barnesville	34.3839	-79.1017	C Sw
I6410000	Lumber River at NC-904 at Fair Bluff	34.3134	-79.0380	B Sw
HUC 03040204: Little Pee Dee River				
I0510000	Leith Creek at SR-1615 near Smyrna Church	34.6597	-79.4501	C Sw
I1530000	Shoe Heel Creek at SR-1101 near Rowland	34.5868	-79.3719	C Sw
HUC 03040206: Waccamaw River				
I7730000	Lake Waccamaw at Dam Spillway near Lake Waccamaw	34.2611	-78.5232	B Sw ORW
I8970000	Waccamaw River at NC-130 at Freeland	34.0952	-78.5478	C Sw
I9310000	Seven Creeks at NC-905 near Bug Hill	34.0493	-78.6350	C Sw
HUC 03040208: Long Bay / Atlantic Ocean				
I9385000	Montgomery Slough at SR-1105 near Long Beach	33.9178	-78.1609	SA HQW
I9420000	Lockwood Folly River at NC-211 at Supply	34.0108	-78.2636	SC HQW
I9430000	Lockwood Folly River near Sandy Hill	33.9722	-78.2503	SC HQW
I9440000	Lockwood Folly River at Varnum	33.9465	-78.2232	SA HQW
I9480000	Lockwood Folly River at CM R6, W channel, NW Sunset Harbor	33.9332	-78.2185	SA HQW
I9700000	Shalotte River at US-17 Business at Shalotte	33.9724	-78.3864	SC
I9820000	Shalotte River at Shell Point near Shalotte	33.9197	-78.3711	SA HQW
I9880000	Intracoastal Waterway at SR-1172 near Sunset Beach	33.8817	-78.5109	SA HQW
I9916000	Calabash River at NC-179 near Calabash	33.8895	-78.5495	SA HQW

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LEITH CRK AT SR 1615 NR SMYRNA CHURCH

Station #: I0510000

Hydrologic Unit Code: 03040204

Latitude: 34.65965

Longitude: -79.45012

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 14-33

Time period: 01/07/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	26	0	N/A				0.9	1.5	2.9	6.7	8.2	9.2	10.8
pH (SU)	25	0	<4.3	0	0		5.1	5.3	6	6.2	6.5	6.7	7.7
	25	0	>9	0	0		5.1	5.3	6	6.2	6.5	6.7	7.7
Spec. conductance (umhos/cm at 25°C)	26	0	N/A				49	60	68	74	80	84	88
Water Temperature (°C)	26	0	>32	0	0		4.7	6.8	10.2	14.9	20.1	24.1	25.5
Other													
Hardness (mg/L)	14	0	N/A				5	8	15	18	23	28	28
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	11.1	12	15
Turbidity (NTU)	58	2	>50	0	0		1	1.1	1.8	2.8	5.2	7.1	14
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	108.5	3	5.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SHOE HEEL CRK AT SR 1101 NR ROWLAND

Station #: I1530000

Hydrologic Unit Code: 03040204

Latitude: 34.58681

Longitude: -79.37192

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 14-34

Time period: 01/06/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	24	0	N/A				4.5	5	5.6	7.2	10.5	11.8	12.5
pH (SU)	26	0	<4.3	0	0		4.9	5.3	5.6	6	6.5	6.9	7.2
	26	0	>9	0	0		4.9	5.3	5.6	6	6.5	6.9	7.2
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				22	47	50	55	59	70	92
Water Temperature (°C)	26	0	>32	0	0		0.6	4.2	6.5	14.1	21	25.2	29.5
Other													
Hardness (mg/L)	14	0	N/A				8	8	8	10	11	13	14
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	11.8	12
Turbidity (NTU)	58	0	>50	0	0		1.2	1.7	2.2	3	4.5	6.1	36
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	94.1	3	5.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: DROWNING CRK AT US 1 NR HOFFMAN

Station #: I2090000

Hydrologic Unit Code: 03040203

Latitude: 35.06100

Longitude: -79.49389

Stream class: C Sw HQW

Agency: NCAMBNT

NC stream index: 14-2-(10.5)

Time period: 01/07/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	8	0	N/A				7.1	7.1	8.4	9.1	11.3	12	12
pH (SU)	7	0	<4.3	0	0		5.3	5.3	5.4	6	6.5	6.8	6.8
	7	0	>9	0	0		5.3	5.3	5.4	6	6.5	6.8	6.8
Spec. conductance (umhos/cm at 25°C)	8	0	N/A				25	25	26	28	32	33	33
Water Temperature (°C)	8	0	>32	0	0		7	7	8	12.6	17.6	19.5	19.5
Other													
Hardness (mg/L)	8	0	N/A				8	8	8	8	9	10	10
TSS (mg/L)	10	9	N/A				6.2	6.2	6.2	6.2	6.2	25.8	28
Turbidity (NTU)	27	0	>50	0	0		1.8	2.4	3.1	4.2	5.1	8.8	16
Nutrients (mg/L)													
NH3 as N	27	21	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.05
NO2 + NO3 as N	27	0	N/A				0.06	0.09	0.11	0.13	0.31	0.4	0.65
TKN as N	27	0	N/A				0.22	0.28	0.34	0.39	0.46	0.57	0.79
Total Phosphorus	27	10	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
27	70.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LUMBER RIV AT US 401 NR WAGRAM

Station #: I2610000

Hydrologic Unit Code: 03040203

Latitude: 34.90025

Longitude: -79.34900

Stream class: WS-IV B Sw HQW

Agency: NCAMBNT

NC stream index: 14-(3)

Time period: 01/07/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	27	0	N/A				4.1	5.4	6.1	7.9	9.9	11	11.4
pH (SU)	26	0	<4.3	0	0		4.4	4.9	5.6	6	6.2	6.5	7.1
	26	0	>9	0	0		4.4	4.9	5.6	6	6.2	6.5	7.1
Spec. conductance (umhos/cm at 25°C)	27	0	N/A				31	33	36	43	46	60	69
Water Temperature (°C)	27	0	>32	0	0		3.3	7	8.5	13.5	20.7	23.1	25.3
Other													
Hardness (mg/L)	13	0	>100	0	0		8	8	9	10	12	14	14
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	6.2	6.3	6.9
Turbidity (NTU)	57	0	>50	0	0		1.3	1.9	2.8	3.6	4.6	6.4	14
Nutrients (mg/L)													
NH3 as N	57	38	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.38
NO2 + NO3 as N	57	0	>10	0	0		0.23	0.38	0.48	0.82	1.1	1.32	2.2
TKN as N	57	1	N/A				0.2	0.32	0.34	0.44	0.55	0.66	0.78
Total Phosphorus	57	0	N/A				0.02	0.04	0.08	0.1	0.16	0.19	0.73
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
56	76.1	4	7.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LUMBER RIV AT SR 1303 NR MAXTON

Station #: I2750000

Hydrologic Unit Code: 03040203

Latitude: 34.74704

Longitude: -79.32455

Stream class: B Sw HQW

Agency: NCAMBNT

NC stream index: 14-(4.5)

Time period: 01/07/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	25	0	N/A				3.9	5.2	6.1	7.4	9.4	11.5
pH (SU)	24	0	<4.3	0	0		4.7	5.3	5.8	6.1	6.7	7.6
	24	0	>9	0	0		4.7	5.3	5.8	6.1	6.7	7.6
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				33	37	42	46	60	86
Water Temperature (°C)	25	0	>32	0	0		3.7	7.1	9.4	14.9	21	25.6
Other												
Hardness (mg/L)	14	0	N/A				8	8	10	10	12	14
TSS (mg/L)	19	19	N/A				6.2	6.2	6.2	6.2	6.2	12
Turbidity (NTU)	57	0	>50	0	0		1.2	1.6	2.8	3.5	5	20
Nutrients (mg/L)												
NH3 as N	57	31	N/A				0.02	0.02	0.02	0.02	0.02	0.1
NO2 + NO3 as N	57	0	N/A				0.03	0.23	0.48	0.72	1.1	1.8
TKN as N	57	0	N/A				0.29	0.33	0.4	0.46	0.56	2.6
Total Phosphorus	57	0	N/A				0.02	0.06	0.07	0.12	0.16	0.97
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
56	68.2	3	5.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LUMBER RIV AT SR 2121 NR KINGSDALE

Station #: I4650000

Hydrologic Unit Code: 03040203

Latitude: 34.50397

Longitude: -78.94441

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 14-(13)

Time period: 01/13/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	N/A				3.2	4.3	5.4	7.6	9.3	11.8	13.4
pH (SU)	24	0	<4.3	0	0		4.8	5.2	5.7	6.1	6.4	6.9	6.9
	24	0	>9	0	0		4.8	5.2	5.7	6.1	6.4	6.9	6.9
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				65	70	75	89	124	205	228
Water Temperature (°C)	25	0	>32	0	0		2.7	5.5	10.6	13.7	21.1	26.8	27.9
Other													
Hardness (mg/L)	14	0	N/A				14	14	15	16	17	21	24
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.9	11.6	12
Turbidity (NTU)	59	0	>50	0	0		1.4	1.7	2.4	2.9	4.1	8.1	22
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	78.8	4	6.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BIG SWAMP AT NC 211 NR RICHARDSON

Station #: I5370000

Hydrologic Unit Code: 03040203

Latitude: 34.57487

Longitude: -78.85717

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 14-22

Time period: 01/13/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	N/A				3.8	3.9	4.8	6.4	8.5	11	12.1
pH (SU)	22	0	<4.3	0	0		4.3	4.6	5	5.3	5.8	6	7.2
	22	0	>9	0	0		4.3	4.6	5	5.3	5.8	6	7.2
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				59	61	64	73	82	113	126
Water Temperature (°C)	23	0	>32	0	0		2.6	6.1	10.4	18.1	23.5	27.8	29.7
Other													
Hardness (mg/L)	12	0	N/A				15	15	18	20	23	25	25
TSS (mg/L)	18	9	N/A				6.2	6.2	6.2	6.7	13.8	36.3	39
Turbidity (NTU)	53	0	>50	0	0		1	1.9	2.8	5.2	7.8	11	27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	102.1	4	7.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LUMBER RIV AT US 74 AT BOARDMAN

Station #: I5690000

Hydrologic Unit Code: 03040203

Latitude: 34.44295

Longitude: -78.95959

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 14-(13)

Time period: 01/13/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	N/A				2.6	4.1	5	7.1	9	10.8	13.1
pH (SU)	24	0	<4.3	0	0		4.6	5.3	5.7	6.1	6.5	6.9	7.1
	24	0	>9	0	0		4.6	5.3	5.7	6.1	6.5	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				64	68	73	84	120	167	194
Water Temperature (°C)	25	0	>32	0	0		2.2	5.6	10.9	13.8	21.2	27.1	28.5
Other													
Hardness (mg/L)	14	0	N/A				14	14	15	18	19	26	32
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	7	20
Turbidity (NTU)	59	0	>50	0	0		1.1	1.6	2.3	3	4.3	6	11
Nutrients (mg/L)													
NH3 as N	59	24	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.12
NO2 + NO3 as N	59	0	N/A				0.05	0.1	0.16	0.35	0.6	0.83	1
TKN as N	59	0	N/A				0.36	0.46	0.54	0.63	0.79	0.91	1.1
Total Phosphorus	59	0	N/A				0.02	0.03	0.05	0.08	0.12	0.17	0.24
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	84.1	2	3.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ASHPOLE SWAMP AT SR 2258 NR BARNESVILLE

Station #: I6290000

Hydrologic Unit Code: 03040203

Latitude: 34.38393

Longitude: -79.10166

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 14-30

Time period: 01/13/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	N/A				0	0.3	1.4	3.8	6.3	10.4	10.7
pH (SU)	23	0	<4.3	0	0		4.8	5.3	5.6	5.9	6.1	6.3	6.5
	23	0	>9	0	0		4.8	5.3	5.6	5.9	6.1	6.3	6.5
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				73	75	80	94	112	118	170
Water Temperature (°C)	24	0	>32	0	0		1.8	5.9	10.6	14.8	17.8	24.1	26.1
Other													
Hardness (mg/L)	9	0	N/A				22	22	32	44	56	150	150
TSS (mg/L)	14	9	N/A				6.2	6.2	6.2	6.6	23.5	38.5	42
Turbidity (NTU)	43	0	>50	1	2.3		1.2	2.2	3.4	8.9	16	25.6	430
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
43	94.2	5	11.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LUMBER RIV AT NC 904 AT FAIR BLUFF

Station #: I6410000

Hydrologic Unit Code: 03040203

Latitude: 34.31342

Longitude: -79.03801

Stream class: B Sw

Agency: NCAMBNT

NC stream index: 14-(28)

Time period: 01/13/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	N/A				4.9	5.3	5.6	8.1	10.1	11.7	13
pH (SU)	24	0	<4.3	0	0		4.9	5.5	5.8	6	6.6	7.2	7.3
	24	0	>9	0	0		4.9	5.5	5.8	6	6.6	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				51	65	69	81	101	169	179
Water Temperature (°C)	25	0	>32	0	0		2.1	5.5	10.9	14.2	22.8	27.4	29.6
Other													
Hardness (mg/L)	14	0	N/A				7	10	16	18	18	21	22
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	12	12	12
Turbidity (NTU)	58	0	>50	0	0		1	1.3	1.9	2.7	3.8	4.9	19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	55.8	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LAKE WACCAMAW AT DAM SPILLWAY NR LAKE WACCAMAW
Station #: I7730000 **Hydrologic Unit Code:** 03040206
Latitude: 34.26107 **Longitude:** -78.52321 **Stream class:** B Sw ORW
Agency: NCAMBNT **NC stream index:** 15-2

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	57	0	N/A				6.2	7.6	8	9.1	10.7	13.9
pH (SU)	58	0	<4.3	0	0		5.5	6	6.2	6.5	6.9	7.9
	58	0	>9	0	0		5.5	6	6.2	6.5	6.9	7.9
Salinity (ppt)	57	0	N/A				0.02	0.02	0.03	0.03	0.03	0.04
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				60	72	77	85	90	103
Water Temperature (°C)	59	0	>32	2	3.4		2.7	7.5	12.9	19.7	28	32.4
Other												
Chlorophyll a (ug/L)	7	0	>40	0	0		2	2	3	5	9	14
Hardness (mg/L)	14	0	N/A				24	24	28	29	32	35
TSS (mg/L)	21	16	N/A				6.2	6.2	6.2	6.2	7.6	38
Turbidity (NTU)	59	0	>25	0	0		1.1	1.5	2.3	3.4	7	19
Nutrients (mg/L)												
NH3 as N	60	56	N/A				0.02	0.02	0.02	0.02	0.02	0.16
NO2 + NO3 as N	60	55	N/A				0.02	0.02	0.02	0.02	0.02	0.08
TKN as N	60	0	N/A				0.55	0.61	0.65	0.72	0.89	1.5
Total Phosphorus	60	14	N/A				0.02	0.02	0.02	0.02	0.03	0.06
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	14	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: WACCAMAW RIV AT NC 130 AT FREELAND

Station #: I8970000

Hydrologic Unit Code: 03040206

Latitude: 34.09518

Longitude: -78.54778

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 15-(1)

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	N/A				2.3	4.1	5	6.3	8	10.1	12.4
pH (SU)	58	0	<4.3	8	13.8	77.9	3.7	4.2	4.5	5	5.2	5.6	6.3
	58	0	>9	0	0		3.7	4.2	4.5	5	5.2	5.6	6.3
Salinity (ppt)	57	0	N/A				0.01	0.02	0.02	0.03	0.03	0.03	0.05
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				58	68	71	78	84	97	125
Water Temperature (°C)	59	0	>32	1	1.7		1.4	6.5	12.8	17.6	25	28.5	33
Other													
Hardness (mg/L)	14	0	N/A				17	18	21	24	27	32	33
TSS (mg/L)	21	21	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.8
Turbidity (NTU)	59	0	>50	0	0		1.1	1.9	2.4	3.1	4.4	6.4	11
Nutrients (mg/L)													
NH3 as N	59	27	N/A				0.02	0.02	0.02	0.02	0.06	0.18	0.43
NO2 + NO3 as N	59	30	N/A				0.02	0.02	0.02	0.02	0.08	0.12	0.35
TKN as N	59	0	N/A				0.68	0.8	0.92	1.2	1.5	1.8	2.3
Total Phosphorus	59	8	N/A				0.02	0.02	0.02	0.04	0.04	0.06	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	56.1	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SEVEN CRKS AT NC 905 NR BUG HILL

Station #: I9310000

Hydrologic Unit Code: 03040206

Latitude: 34.04926

Longitude: -78.63496

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 15-17

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	N/A				0	1	2.8	5	7.2	10	12.9
pH (SU)	58	0	<4.3	0	0		5.1	5.4	5.6	5.9	6	6.2	6.5
	58	0	>9	0	0		5.1	5.4	5.6	5.9	6	6.2	6.5
Salinity (ppt)	57	0	N/A				0.02	0.03	0.03	0.04	0.04	0.05	0.08
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				64	84	88	96	109	127	187
Water Temperature (°C)	59	0	>32	0	0		1.6	6.9	12.2	17.5	23.6	27	30
Other													
Hardness (mg/L)	14	0	N/A				7	14	26	30	39	56	63
TSS (mg/L)	21	19	N/A				6.2	6.2	6.2	6.2	6.8	12	12
Turbidity (NTU)	59	0	>50	0	0		1.1	2.6	3.8	4.6	6.8	10	23
Nutrients (mg/L)													
NH3 as N	59	21	N/A				0.02	0.02	0.02	0.04	0.16	0.43	1.3
NO2 + NO3 as N	59	36	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.21
TKN as N	59	0	N/A				0.47	0.63	0.91	1.3	1.6	2.1	3.1
Total Phosphorus	59	1	N/A				0.02	0.02	0.03	0.05	0.08	0.11	0.24
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	110	5	8.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: MONTGOMERY SLOUGH AT SR 1105 NR LONG BEACH

Station #: I9385000

Hydrologic Unit Code: 03040207

Latitude: 33.91777

Longitude: -78.16093

Stream class: SA HQW

Agency: NCAMBNT

NC stream index: 15-25

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	74	0	<5	10	13.5	79.7	3.5	4.7	5.4	6.5	7.7	9.3	11
pH (SU)	75	0	<6.8	0	0		7.2	7.2	7.3	7.6	7.7	7.8	8
	75	0	>8.5	0	0		7.2	7.2	7.3	7.6	7.7	7.8	8
Salinity (ppt)	73	0	N/A				12.68	20.26	23.97	27.58	31.55	32.82	34.32
Spec. conductance (umhos/cm at 25°C)	73	0	N/A				21241	32548	37615	42583	48234	50008	52044
Water Temperature (°C)	76	0	>32	1	1.3		5.1	10	14.9	22.5	28.8	30.6	32.2
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		24	24	24	24	24	24	24
TSS (mg/L)	21	0	N/A				6.2	10	15	23	30.5	35	36
Turbidity (NTU)	58	0	>25	0	0		3.2	4.7	6.1	8.2	13	18.1	23
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	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	1	0	N/A				0.5	0.5	0.5	0.5	0.5	0.5	0.5
Total Phosphorus	1	0	N/A				0.04	0.04	0.04	0.04	0.04	0.04	0.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf					
58	18.4	1	1.7		20	13	22	99.6					

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOCKWOOD FOLLY RIV AT NC 211 AT SUPPLY

Station #: I9420000

Hydrologic Unit Code: 03040207

Latitude: 34.01077

Longitude: -78.26360

Stream class: SC HQW

Agency: NCAMBNT

NC stream index: 15-25-1-(11)

Time period: 01/28/2009 to 11/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	53	0	<5	23	43.4	> 99.9	2.4	3.3	3.7	5.5	7.4	9	10.5
pH (SU)	56	0	<6.8	12	21.4	99.1	6.1	6.5	6.8	7.1	7.3	7.4	7.7
Salinity (ppt)	56	0	>8.5	0	0		6.1	6.5	6.8	7.1	7.3	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				0.04	0.06	0.11	0.18	0.53	6.71	14.9
Water Temperature (°C)	56	0	>32	0	0		5.5	8.9	13.7	20.6	26.8	29.2	31.9
Other													
TSS (mg/L)	19	8	N/A				6.2	6.2	6.2	7	8.2	16	31
Turbidity (NTU)	56	0	>25	0	0		3	4.5	5.1	6.7	9	13.6	21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	146.9	5	9.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOCKWOOD FOLLY RIV NR SANDY HILL

Station #: I9430000

Hydrologic Unit Code: 03040207

Latitude: 33.97220

Longitude: -78.25029

Stream class: SC HQW

Agency: NCAMBNT

NC stream index: 15-25-1-(11)

Time period: 01/28/2009 to 11/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	52	0	<5	18	34.6	>99.9	3.2	3.8	4.6	5.8	8	9.5	11.1
pH (SU)	55	0	<6.8	5	9.1		6.4	6.8	7.1	7.3	7.4	7.6	7.8
	55	0	>8.5	0	0		6.4	6.8	7.1	7.3	7.4	7.6	7.8
Salinity (ppt)	55	0	N/A				0.07	0.17	1.52	11.21	20.61	26.79	34.28
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				153	347	2805	18990	32976	41884	51976
Water Temperature (°C)	55	0	>32	0	0		6	9	14.2	21.6	26.9	29.7	31.1
Other													
TSS (mg/L)	20	2	N/A				6.2	6.8	9.1	13.5	21	28.8	37
Turbidity (NTU)	55	0	>25	0	0		2.8	4.5	5.8	8.3	12	15.8	21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	58.1	2	3.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LOCKWOOD FOLLY RIV AT VARNUM

Station #: I9440000

Hydrologic Unit Code: 03040207

Latitude: 33.94647

Longitude: -78.22324

Stream class: SA HQW @

Agency: NCAMBNT

NC stream index: 15-25-1-(16)

Time period: 01/28/2009 to 11/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	52	0	<5	5	9.6		3.5	4.9	5.8	6.8	8.2	8.9	10.6
pH (SU)	55	0	<6.8	0	0		6.9	7.5	7.6	7.8	7.9	7.9	8.1
	55	0	>8.5	0	0		6.9	7.5	7.6	7.8	7.9	7.9	8.1
Salinity (ppt)	55	0	N/A				2.5	12.8	24.63	30.73	33.1	34.52	35.7
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				4604	21546	38197	47149	50262	52309	53904
Water Temperature (°C)	55	0	>32	0	0		7.6	9.9	14.5	20.7	27.4	29.1	31
Other													
TSS (mg/L)	20	0	N/A				8.2	10	12	15.5	20.8	32.3	58
Turbidity (NTU)	55	0	>25	0	0		3	3.8	5.5	8.1	9.9	12	19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:		Median	# > 43	% > 43	%Conf				
53	12.5	1	1.9			14	12	23	99.5				

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LOCKWOOD FOLLY RIV AT CM R6 W CH NW SUNSET HARBOR

Station #: I9480000

Hydrologic Unit Code: 03040207

Latitude: 33.93319

Longitude: -78.21850

Stream class: SA HQW @

Agency: NCAMBNT

NC stream index: 15-25-1-(16)

Time period: 01/28/2009 to 11/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	1	1.9		4.2	5.6	6.4	7.3	8.6	9.1	10.2
pH (SU)	57	0	<6.8	0	0		7.1	7.6	7.8	7.9	8	8	8.1
	57	0	>8.5	0	0		7.1	7.6	7.8	7.9	8	8	8.1
Salinity (ppt)	57	0	N/A				8.73	22.89	29.66	32.68	33.86	34.82	39.3
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				15536	36001	45741	49870	51419	52664	54706
Water Temperature (°C)	57	0	>32	0	0		8.4	9.9	14.9	21.8	27.4	29.1	30.9
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		6	6	6	6	6	6	6
TSS (mg/L)	20	1	N/A				6.2	9	10.6	18.5	23.5	39.1	44
Turbidity (NTU)	55	0	>25	0	0		1.5	2.9	4.9	8.5	12	14.4	23
Nutrients (mg/L)													
NH3 as N	1	0	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	1	0	N/A				0.24	0.24	0.24	0.24	0.24	0.24	0.24
Total Phosphorus	1	0	N/A				0.05	0.05	0.05	0.05	0.05	0.05	0.05
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:		Median	# > 43	% > 43	%Conf				
54	5.2	1	1.9			4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SHALLOTTE RIV AT US 17 BUS AT SHALLOTTE

Station #: I9700000

Hydrologic Unit Code: 03040207

Latitude: 33.97244

Longitude: -78.38641

Stream class: SC

Agency: NCAMBNT

NC stream index: 15-25-2-(5)

Time period: 01/22/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	64	0	<5	17	26.6	>99.9	3.2	3.8	4.7	6.1	7.9	10	12.3
pH (SU)	64	0	<6.8	11	17.2	94.8	6.3	6.6	6.8	6.9	7.1	7.2	7.5
	64	0	>8.5	0	0		6.3	6.6	6.8	6.9	7.1	7.2	7.5
Salinity (ppt)	64	0	N/A				0.07	0.18	0.5	4.74	15.44	22.46	33.6
Spec. conductance (umhos/cm at 25°C)	64	0	N/A				164	354	949	8504	25120	35650	51059
Water Temperature (°C)	66	0	>32	0	0		3	7.4	13.5	20.5	28.6	30.1	31.8
Other													
TSS (mg/L)	21	6	N/A				6.2	6.2	6.5	12	17	22.6	32
Turbidity (NTU)	58	0	>25	2	3.4		3	4.8	6.5	9.5	13	16.3	45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	176.9	6	10.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SHALLOTTE RIV AT SHELL POINT NR SHALLOTTE

Station #: I9820000

Hydrologic Unit Code: 03040207

Latitude: 33.91966

Longitude: -78.37108

Stream class: SA HQW

Agency: NCAMBNT

NC stream index: 15-25-2-(10)

Time period: 01/28/2009 to 11/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	4	7.4		4.5	5.1	6	7.1	8.4	9.2	9.7
pH (SU)	58	0	<6.8	0	0		7.3	7.6	7.7	7.9	7.9	8	8
	58	0	>8.5	0	0		7.3	7.6	7.7	7.9	7.9	8	8
Salinity (ppt)	58	0	N/A				20.6	29.07	31.98	33.54	34.57	35.34	36.51
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				32936	44744	48892	50974	52372	53401	54888
Water Temperature (°C)	58	0	>32	0	0		8.4	9.4	13.3	20.2	26.9	28.4	30.4
Other													
TSS (mg/L)	20	0	N/A				9.8	11.3	15.2	16.5	24.8	45.3	58
Turbidity (NTU)	56	0	>25	0	0		1.5	3.5	4.7	7.8	10	13.3	17
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:		Median	# > 43	% > 43	%Conf				
54	2.9	0	0			2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ICW AT SR 1172 NR SUNSET BEACH

Station #: I9880000

Hydrologic Unit Code: 03040207

Latitude: 33.88168

Longitude: -78.51091

Stream class: SA HQW

Agency: NCAMBNT

NC stream index: 15-25

Time period: 01/22/2009 to 11/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<5	5	9.1		3.4	4.9	5.4	6.7	8	9.6	10.6
pH (SU)	56	0	<6.8	1	1.8		6.4	7.4	7.5	7.6	7.7	7.8	8
	56	0	>8.5	0	0		6.4	7.4	7.5	7.6	7.7	7.8	8
Salinity (ppt)	56	0	N/A				10.75	18.88	22.32	25.21	28.72	30.83	33.37
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				18227	30511	35962	39866	44394	47228	50734
Water Temperature (°C)	57	0	>32	1	1.8		5.5	9.4	14.6	20.6	27.6	29.7	32.6
Other													
TSS (mg/L)	20	1	N/A				7	9.6	12.2	15.5	22.8	29.8	34
Turbidity (NTU)	56	0	>25	0	0		2.3	3.4	4.2	6.4	9.3	11.3	17
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:		Median	# > 43	% > 43	%Conf				
55	10.9	0	0			12	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CALABASH RIV AT NC 179 NR CALABASH

Station #: I9916000

Hydrologic Unit Code: 03040207

Latitude: 33.88951

Longitude: -78.54947

Stream class: SA HQW

Agency: NCAMBNT

NC stream index: 15-25-13

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	66	0	<5	14	21.2	99.5	3.1	4	5.2	6.5	8.1	10.6	11.9
pH (SU)	68	0	<6.8	2	2.9		6.4	6.9	7.1	7.4	7.5	7.7	8
	68	0	>8.5	0	0		6.4	6.9	7.1	7.4	7.5	7.7	8
Salinity (ppt)	67	0	N/A				0.28	9.99	12.37	17.61	21.34	24.83	30.17
Spec. conductance (umhos/cm at 25°C)	67	0	N/A				543	17001	20745	28441	34067	39047	46346
Water Temperature (°C)	69	0	>32	2	2.9		4.6	9.6	15.2	21.7	29.1	31.1	32.6
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		2	2	2	2	2	2	2
Hardness (mg/L)	1	0	N/A				46	46	46	46	46	46	46
TSS (mg/L)	21	1	N/A				6.2	6.9	15	30	43	266	556
Turbidity (NTU)	59	0	>25	10	16.9	93.3	2.9	4.8	7.9	12	21	40	230
Nutrients (mg/L)													
NH3 as N	1	0	N/A				0.04	0.04	0.04	0.04	0.04	0.04	0.04
NO2 + NO3 as N	1	0	N/A				0.08	0.08	0.08	0.08	0.08	0.08	0.08
TKN as N	1	0	N/A				0.44	0.44	0.44	0.44	0.44	0.44	0.44
Total Phosphorus	1	0	N/A				0.04	0.04	0.04	0.04	0.04	0.04	0.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf					
59	81.8	5	8.5		77	40	68	> 99.9					

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Neuse

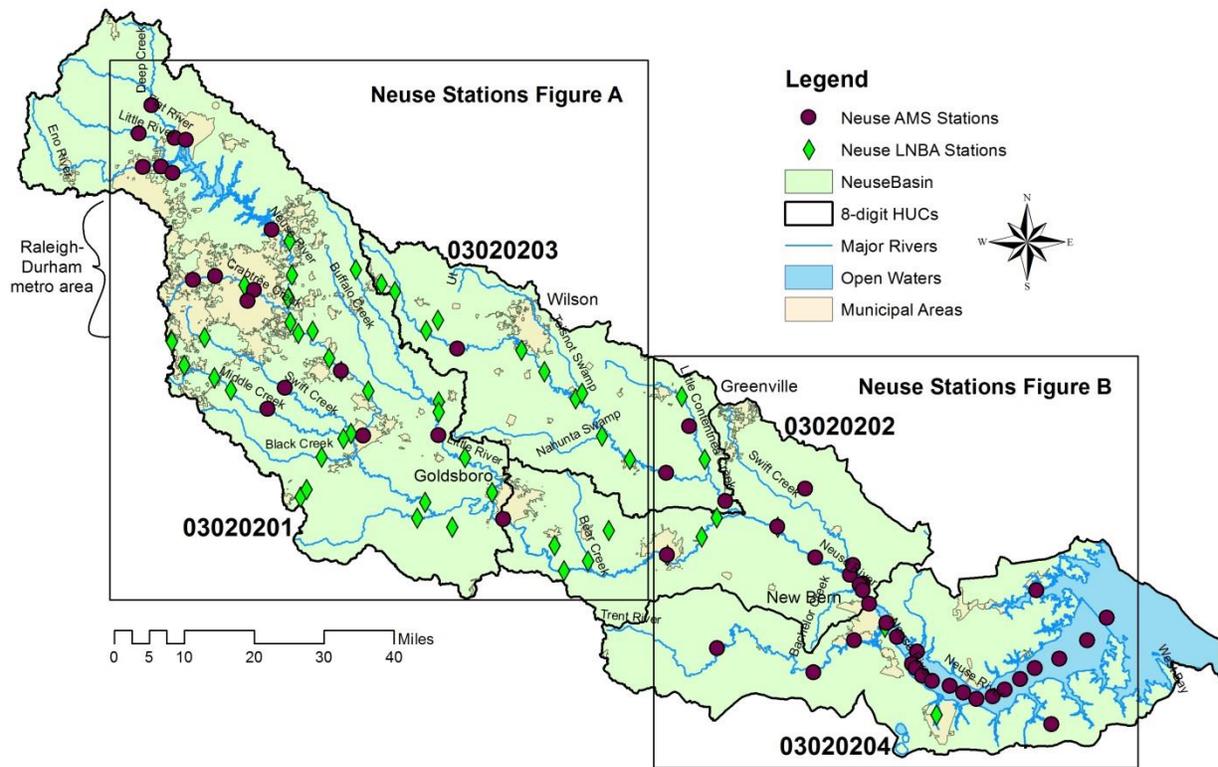
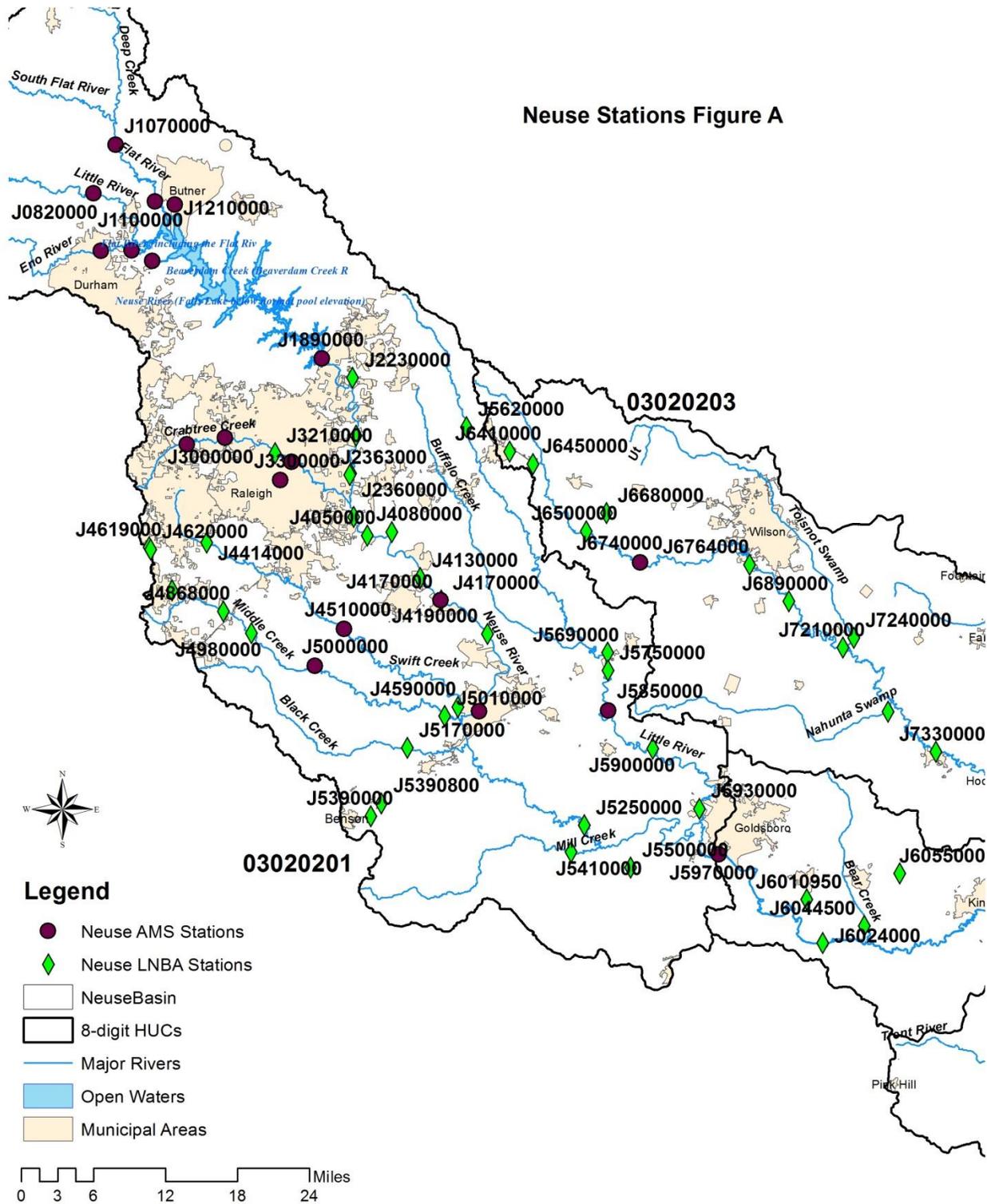
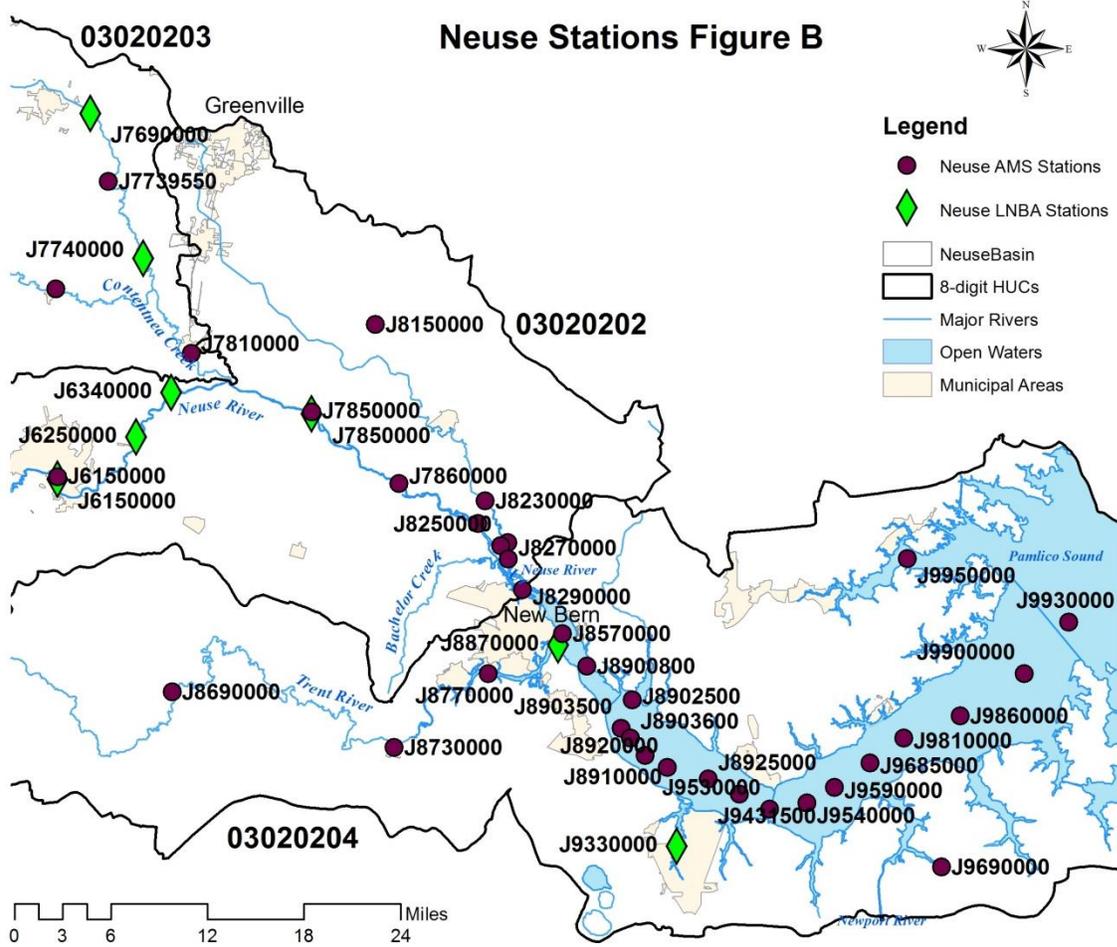


Figure NEU-1. Neuse River basin ambient monitoring station locations, 2009-2013 (see details below).





NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table NEU-1a. AMS monitoring stations in the Neuse River basin, 2009-2013.

Station	Location	Class	Latitude	Longitude
HUC 03020201: Upper Neuse				
J0770000	Eno River at US 501 near Durham	WS-IV NSW	36.0720	-78.9086
J0810000	Eno River at SR 1004 near Durham	WS-IV NSW	36.0725	-78.8627
J0820000	Little River at SR 1461 near Orange Factory	WS-II HQW NSW	36.1416	-78.9193
J1070000	Flat River at SR 1614 near Quail Roost	WS-III NSW	36.2002	-78.8862
J1100000	Flat River at SR 1004 near Willardsville	WS-IV NSW CA	36.1319	-78.8278
J1210000	Knap of Reeds Creep at WWTP Outfall near Butner	WS-IV NSW	36.1280	-78.7985
J1330000	Ellerbe Creek at SR 1636 near Durham	WS-IV NSW CA	36.0595	-78.8322
J1890000	Neuse River at SR 2000 near Falls	WS-IV NSW	35.9408	-78.5801
J2850000	Crabtree Creek at SR 1795 near Umstead State Park	B NSW	35.8377	-78.7808
J3000000	Crabtree Creek at SR 1649 near Raleigh	B NSW	35.8455	-78.7244
J3251000	Crabtree Creek at SR 2000 Old Wake Forest Road at Raleigh	C NSW	35.8158	-78.6257
J3300000	Pigeon House Branch at Dortch Street at Raleigh	C NSW	35.7939	-78.6426
J4170000	Neuse River at NC 42 near Clayton	WS-IV NSW	35.6473	-78.4057
J4370000	Neuse River at US 70 Business at Smithfield	WS-V NSW	35.5128	-78.3499
J4510000	Swift Creek at NC 42 near Clayton	C NSW	35.6131	-78.5486
J5000000	Middle Creek at NC 50 near Clayton	C NSW	35.5689	-78.5923
J5850000	Little River at SR 2320 near Princeton	WS-V NSW	35.5125	-78.1588
HUC 03020202: Middle Neuse				
J5970000	Neuse River at SR 1915 near Goldsboro	C NSW	35.3371	-77.9973
J6150000	Neuse River at NC 11 at Kinston	C NSW	35.2588	-77.5835
J7850000	Neuse River at SR 1470 near Fort Barnwell	C Sw NSW	35.3139	-77.3030
J7930000	Neuse River at SR 1400 at Streets Ferry	C Sw NSW	35.2106	-77.1222
J8150000	Creeping Swamp at NC 43 near Vanceboro	C Sw NSW	35.3916	-77.2313
J8210000	Swift Creek at Mouth near Askin	SC Sw NSW	35.1928	-77.0898
J8230000	Swift Creek at NC 43 near Streets Ferry	SC Sw NSW	35.2310	-77.1139
J8250000	Neuse River at CM 68 below Swift Creek near Askin	SC Sw NSW	35.1901	-77.0978
J8290000	Neuse River at CM 52 at mouth of Narrows near Washington Forks	SC Sw NSW	35.1501	-77.0749

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table NEU-1b. AMS monitoring stations in the Neuse River basin, 2009-2013 (continued).

Station	Location	Class	Latitude	Longitude
HUC 03020203: Contentnea				
J6740000	Contentnea Creek at NC 581 near Lucama	WS-V NSW	35.6914	-78.1093
J7450000	Contentnea Creek at NC 123 at Hookerton	C Sw NSW	35.4286	-77.5826
J7739550	Little Contentnea Creek at SR 1125 near Ballards Crossroads	C Sw NSW	35.5249	-77.5227
J7810000	Contentnea Creek near SR 1800 at Grifton	C Sw NSW	35.3685	-77.4341
HUC 03020204: Lower Neuse				
J8570000	Neuse River 0.5 mile upstream of Union Point at New Bern	SC Sw NSW	35.1097	-77.0317
J8690000	Trent River at SR 1129 near Trenton	C Sw NSW	35.0636	-77.4611
J8730000	Trent River at US 17 at Pollocksville	C Sw NSW	35.0099	-77.2189
J8770000	Trent River at CM 14 above Reedy Bridge near Rhems	SB Sw NSW	35.0751	-77.1144
J8900800	Neuse River at CM 22 near Fairfield Harbour	SC Sw NSW	35.0799	-77.0061
J8902500	Neuse River at CM 2 at mouth of Broad Creek near Thurman	SB Sw NSW	35.0490	-76.9569
J8903500	Neuse River at CM 17 near Thurman	SB Sw NSW	35.0234	-76.9695
J8910000	Neuse River at CM 11 near Riverdale	SB Sw NSW	34.9986	-76.9442
J8920000	Neuse River near Kennel Beach	SB Sw NSW	34.9871	-76.9199
J8925000	Neuse River near Arapahoe	SB Sw NSW	34.9762	-76.8756
J9431500	Neuse River near Cherry Point MCAS	SB Sw NSW	34.9617	-76.8418
J9530000	Neuse River at CM 9 near Minnesott Beach	SA HQW NSW	34.9476	-76.8087
J9540000	Neuse River near Pierce	SA HQW NSW	34.9523	-76.7680
J9590000	Neuse River near Janeiro	SA HQW NSW	34.9660	-76.7375
J9685000	Neuse River near Merrimon	SA HQW NSW	34.9873	-76.6978
J9690000	Black Creek at SR 1300 near Merrimon	SA HQW NSW	34.8920	-76.6220
J9810000	Neuse River at CM 7 near Oriental	SA HQW NSW	35.0089	-76.6604
J9860000	Neuse River near Cackle Point	SA HQW NSW	35.0276	-76.5976
J9900000	Neuse River near Piney Point	SA HQW NSW	35.0644	-76.5265
J9930000	Neuse River at CM at mouth near Pamlico	SA HQW NSW	35.1100	-76.4761
J9950000	Bay River at CM 5 near Vandemere	SA HQW NSW	35.1706	-76.6516

Note: Stations in italics are collocated monitoring points for both AMS and LNBA: J4170000, J6150000, J7850000.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table NEU-2a. LNBA monitoring stations in the Neuse River basin, 2009-2013.

Station	Location	Class	Latitude	Longitude
HUC 03020201: Upper Neuse				
J2230000	Smith Creek at SR 2045 Burlington Mill Rd near Wake Forest	C NSW	35.9182	-78.5348
J2330000	Neuse River at SR 2215 Buffalo Road near Neuse	C NSW	35.8479	-78.5302
J2360000	Neuse River above Milburnie Dam near Raleigh	C NSW	35.8022	-78.5386
J3210000	Crabtree Creek at Lassiter Mill Dam at Raleigh	C NSW	35.8272	-78.6508
J3970000	Walnut Creek at SR 2551 Barwell Road near Raleigh	C NSW	35.7493	-78.5345
J4050000	Neuse River at SR 2555 Auburn Knightdale Rd near Raleigh	C NSW	35.7266	-78.5139
J4080000	Poplar Creek at SR 2049 Bethlehem Rd near Knightdale	C NSW	35.7309	-78.4776
J4110000	Marks Creek at SR 1714 near Archers Lodge	C NSW	35.7062	-78.4313
J4130000	Neuse River at SR 1700 Covered Bridge Road near Archers Lodge	WS-V NSW	35.6749	-78.4364
J4170000	Neuse River at NC 42 near Clayton	WS-IV NSW	35.6473	-78.4056
J4190000	Neuse River at SR 1908 Fire Dept Drive near Wilsons Mills	WS-IV NSW	35.6067	-78.3374
J4414000	Swift Creek at SR 1152 Holly Springs Road near Macedonia	WS-III NSW	35.7187	-78.7527
J4500000	Swift Creek at Indian Creek Discharge near Garner	C NSW	35.6477	-78.6042
J4510000	Swift Creek at NC 42 near Clayton	C NSW	35.6131	-78.5486
J4511000	White Oak Creek at NC 42 near Clayton	C NSW	35.6177	-78.5282
J4520000	Swift Creek at SR 1562 near Smithfield	C NSW	35.5516	-78.4600
J4580000	Swift Creek at SR 1501 Swift Creek Road near Smithfield	C NSW	35.5442	-78.3970
J4590000	Swift Creek at NC 210 near Smithfield	C NSW	35.5186	-78.3819
J4619000	UT Middle Creek at Lufkin Road at Apex	C NSW	35.7131	-78.8381
J4690000	Middle Creek at SR 1152 Holly Springs Rd near Holly Springs	C NSW	35.6609	-78.8042
J4868000	Middle Creek at SR 1375 Lake Wheeler Rd near Banks	C NSW	35.6356	-78.7279
J4980000	Middle Creek at SR 1006 Old Stage Rd near Willow Springs	C NSW	35.6091	-78.6866
J5002000	Middle Creek off SR 1517 near Edmondson	C NSW	35.5564	-78.5655
J5010000	Middle Creek at NC 210 near Smithfield	C NSW	35.5075	-78.4013
J5170000	Black Creek at SR 1162 Black Creek Rd near Four Oaks	C NSW	35.4693	-78.4568
J5250000	Neuse River at SR 1201 Richardson Bridge Rd near Cox Mill	WS-IV NSW	35.3741	-78.1962
J5390000	Hannah Creek at SR 1158 Allens Crossroads Dr near Benson	C NSW	35.3868	-78.5110
J5390800	Hannah Creek at SR 1227 Ivey Road near Benson	C NSW	35.4025	-78.4952
J5410000	Mill Creek at SR 1200 near Cox Mill	C NSW	35.3419	-78.2162
J5500000	Falling Creek at SR 1219 Old Grantham Rd near Grantham	WS-IV NSW	35.3224	-78.1282
J5620000	Little River at SR 2333 Smithfield Road near Zebulon	WS-II HQW NSW	35.8577	-78.3665
J5690000	Little River at US 301 near Kenly	WS-V NSW	35.5829	-78.1593
J5750000	Little River at SR 2339 Bagley Road near Lowell Mill	WS-V NSW	35.5613	-78.1593
J5790000	Buffalo Creek at SR 2358 at Wendell	C NSW	35.7697	-78.3769
J5900000	Little River at SR 1234 Capps Br Rd near Crossroads	WS-IV NSW	35.4662	-78.0942
J5930000	Little River at NC 581 at Asylum	C NSW	35.3930	-78.0258

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table NEU-2b. LNBA monitoring stations in the Neuse River basin, 2009-2013 (continued).

Station	Location	Class	Latitude	Longitude
HUC 03020202: Middle Neuse				
J6010950	Walnut Creek at SR 1730 Saint Johns Church Road near Walnut Creek	C NSW	35.2817	-77.8686
J6024000	Neuse River at SR 1731 near Seven Springs	C NSW	35.2290	-77.8460
J6044500	Bear Creek at SR 1311 Bear Creek Road near Kinston	WS IV Sw NSW	35.2489	-77.7843
J6055000	Mosley Creek at SR 1327 Willey Measley Rd near LaGrange	C Sw NSW	35.3119	-77.7313
<i>J6150000</i>	<i>Neuse River at NC 11 at Kinston</i>	<i>C NSW</i>	<i>35.2587</i>	<i>-77.5835</i>
J6250000	Neuse River at NC 55 near Graingers	C NSW	35.2957	-77.4962
<i>J7850000</i>	<i>Neuse River at SR 1470 Maple Cypress Rd near Fort Barnwell</i>	<i>C Sw NSW</i>	<i>35.3139</i>	<i>-77.3030</i>
HUC 03020203: Contentnea				
J6410000	Little Creek at NC 97 at Zebulon	C NSW	35.8279	-78.3025
J6450000	Little Creek at NC 39 at Zebulon	C NSW	35.8125	-78.2681
J6500000	Moccasin Creek at SR 1131 Antioch Church Rd near Conner	C NSW	35.7301	-78.1895
J6680000	Turkey Crk at SR 1101 Claude Lewis Rd near Middlesex	C NSW	35.7519	-78.1597
J6764000	Contentnea Creek at US 301 Ward Blvd near Dixie	C Sw NSW	35.6879	-77.9477
J6890000	Contentnea Crk at SR 1622 Evansdale Rd near Wilson	C Sw NSW	35.6429	-77.8902
J7210000	Contentnea Creek at NC 58 near Stantonsburg	C Sw NSW	35.5861	-77.8111
J7240000	Toisnot Swamp at SR 1539 Sand Pit Road near Stantonsburg	C Sw NSW	35.5976	-77.7947
J7325000	Nahunta Swamp at NC 58 near Contentnea	C Sw NSW	35.5081	-77.7455
J7330000	Contentnea Creek at US 13 at Snow Hill	C Sw NSW	35.4585	-77.6753
J7690000	Little Contentnea Creek at SR 1218 Chinquapin Road near Farmville	C Sw NSW	35.5881	-77.5416
J7740000	Little Contentnea Creek at SR 1110 Hwy 903 at Scuffleton	C Sw NSW	35.4567	-77.4854
HUC 03020204: Lower Neuse				
J8870000	Trent River at East Front Street at New Bern	SB Sw NSW	35.1016	-77.0371
J9330000	Slocum Creek at Slocum Road at Cherry Point	SC Sw NSW	34.9177	-76.9115

Note: Stations in italics are collocated monitoring points for both AMS and LNBA: J4170000, J6150000, J7850000.

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ENO RIV AT US 501 NR DURHAM

Station #: J0770000

Hydrologic Unit Code: 03020201

Latitude: 36.07197

Longitude: -78.90864

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 27-2-(19)

Time period: 01/05/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	35	0	<4	0	0		4.9	6.6	7.5	9.5	12.2	13.2	14.6
	35	0	<5	1	2.9		4.9	6.6	7.5	9.5	12.2	13.2	14.6
pH (SU)	36	0	<6	0	0		6.3	6.8	7	7.4	7.5	7.7	8.2
	36	0	>9	0	0		6.3	6.8	7	7.4	7.5	7.7	8.2
Spec. conductance (umhos/cm at 25°C)	36	0	N/A				68	93	103	118	130	171	190
Water Temperature (°C)	36	0	>32	0	0		2.9	4.9	7.6	15.5	23.7	26.6	29.8
Other													
Hardness (mg/L)	14	0	>100	0	0		31	31	33	35	39	43	44
TSS (mg/L)	20	15	N/A				6.2	6.2	6.3	12	12	12	19
Turbidity (NTU)	36	0	>50	0	0		2	2.5	3.2	5.8	10.8	18.9	50
Nutrients (mg/L)													
NH3 as N	36	22	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.06
NO2 + NO3 as N	36	3	>10	0	0		0.02	0.02	0.09	0.17	0.39	0.45	0.56
TKN as N	35	0	N/A				0.2	0.27	0.29	0.36	0.41	0.48	0.64
Total Phosphorus	35	1	N/A				0.02	0.02	0.02	0.03	0.05	0.06	0.1
Metals (ug/L)													
Copper, total (Cu)	1	1	>7	0	0		2	2	2	2	2	2	2
Zinc, total (Zn)	1	1	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
34	59.5		4	11.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ENO RIV AT SR 1004 NR DURHAM

Station #: J0810000

Hydrologic Unit Code: 03020201

Latitude: 36.07254

Longitude: -78.86270

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 27-2-(19.5)

Time period: 01/05/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	35	0	<4	1	2.9		3.6	5.4	6.6	8.7	11	13	14.1
	35	0	<5	3	8.6		3.6	5.4	6.6	8.7	11	13	14.1
pH (SU)	36	0	<6	0	0		6.3	6.8	7.1	7.2	7.5	7.7	8
	36	0	>9	0	0		6.3	6.8	7.1	7.2	7.5	7.7	8
Spec. conductance (umhos/cm at 25°C)	36	0	N/A				75	96	107	125	138	175	189
Water Temperature (°C)	36	0	>32	0	0		3	5.4	8.1	16	23.4	27.3	29.1
Other													
Hardness (mg/L)	14	0	>100	0	0		31	32	34	38	39	46	46
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	6.6	12.2	14	20
Turbidity (NTU)	36	0	>50	0	0		3	3.7	5.5	8.9	15.8	18	45
Nutrients (mg/L)													
NH3 as N	36	25	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.13
NO2 + NO3 as N	36	5	>10	0	0		0.02	0.02	0.06	0.15	0.34	0.44	0.49
TKN as N	35	0	N/A				0.24	0.29	0.31	0.35	0.49	0.56	0.82
Total Phosphorus	35	0	N/A				0.02	0.02	0.03	0.04	0.06	0.08	0.17
Metals (ug/L)													
Copper, total (Cu)	1	1	>7	0	0		2	2	2	2	2	2	2
Zinc, total (Zn)	1	1	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
35	85.4		4	11.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LITTLE RIV AT SR 1461 NR ORANGE FACTORY

Station #: J0820000

Hydrologic Unit Code: 03020201

Latitude: 36.14159

Longitude: -78.91930

Stream class: WS-II HQW NSW CA

Agency: NCAMBNT

NC stream index: 27-2-21-(3.5)

Time period: 01/05/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	35	0	<4	0	0		4.1	6.7	7.4	9.8	11.6	13.4	14.7
	35	0	<5	1	2.9		4.1	6.7	7.4	9.8	11.6	13.4	14.7
pH (SU)	36	0	<6	0	0		6.4	6.9	7.1	7.3	7.5	7.8	8.1
	36	0	>9	0	0		6.4	6.9	7.1	7.3	7.5	7.8	8.1
Spec. conductance (umhos/cm at 25°C)	35	0	N/A				73	77	86	93	104	116	124
Water Temperature (°C)	36	0	>32	0	0		1.6	4.3	8.2	14.8	21.7	25	29.7
Other													
Hardness (mg/L)	14	0	>100	0	0		28	28	30	32	33	37	38
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	6.2	8.3	52
Turbidity (NTU)	36	0	>50	2	5.6		1.5	2.1	3.9	8.4	16	22.6	80
Nutrients (mg/L)													
NH3 as N	36	31	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
NO2 + NO3 as N	36	7	>10	0	0		0.02	0.02	0.03	0.24	0.38	0.43	0.52
TKN as N	35	0	N/A				0.22	0.27	0.32	0.37	0.47	0.58	0.78
Total Phosphorus	35	1	N/A				0.02	0.02	0.03	0.04	0.06	0.1	0.18
Metals (ug/L)													
Copper, total (Cu)	1	1	>7	0	0		2	2	2	2	2	2	2
Zinc, total (Zn)	1	1	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
35	103.2	6	17.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FLAT RIV AT SR 1614 NR QUAIL ROOST

Station #: J1070000

Hydrologic Unit Code: 03020201

Latitude: 36.20021

Longitude: -78.88615

Stream class: WS-III NSW

Agency: NCAMBNT

NC stream index: 27-3-(1)

Time period: 01/05/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	34	0	<4	0	0		4.5	5.9	6.9	9.1	11	12.8	14.4
	34	0	<5	1	2.9		4.5	5.9	6.9	9.1	11	12.8	14.4
pH (SU)	35	0	<6	0	0		6.4	6.7	7	7.2	7.3	7.4	7.8
	35	0	>9	0	0		6.4	6.7	7	7.2	7.3	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	35	0	N/A				64	67	76	84	101	108	111
Water Temperature (°C)	35	0	>32	0	0		2.1	4.1	7.3	14.8	22.2	26.3	29.6
Other													
Hardness (mg/L)	14	0	>100	0	0		20	22	26	27	30	32	33
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	7.8	11.7	13
Turbidity (NTU)	34	0	>50	1	2.9		2.3	3.3	4.1	11	16.2	21	75
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	1	>10	0	0		0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	1	0	N/A				0.23	0.23	0.23	0.23	0.23	0.23	0.23
Total Phosphorus	1	0	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
33	64.5	2	6.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FLAT RIV AT SR 1004 NR WILLARDSVILLE

Station #: J1100000

Hydrologic Unit Code: 03020201

Latitude: 36.13186

Longitude: -78.82784

Stream class: WS-IV NSW CA

Agency: NCAMBNT

NC stream index: 27-3-(9)

Time period: 01/05/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	35	0	<4	11	31.4	> 99.9	2.1	2.6	3.8	6.5	9.8	11.4	12.6
	35	0	<5	14	40	> 99.9	2.1	2.6	3.8	6.5	9.8	11.4	12.6
pH (SU)	36	0	<6	0	0		6.2	6.7	6.8	6.9	7.1	7.4	7.5
	36	0	>9	0	0		6.2	6.7	6.8	6.9	7.1	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	36	0	N/A				59	64	68	76	82	90	97
Water Temperature (°C)	36	0	>32	0	0		4.3	5.5	8.5	15.8	24.1	28.1	31
Other													
Hardness (mg/L)	14	0	>100	0	0		20	21	23	24	27	38	46
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.8	11.5	12.9	14
Turbidity (NTU)	36	0	>50	0	0		1.7	2.5	4.6	8.5	16.2	24.3	34
Nutrients (mg/L)													
NH3 as N	36	21	N/A				0.02	0.02	0.02	0.02	0.05	0.12	0.18
NO2 + NO3 as N	36	16	>10	0	0		0.02	0.02	0.02	0.02	0.25	0.32	0.37
TKN as N	35	0	N/A				0.41	0.44	0.5	0.64	0.69	0.77	0.82
Total Phosphorus	35	0	N/A				0.02	0.03	0.04	0.05	0.06	0.07	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
35	25	1	2.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: KNAP OF REEDS CRK AT WWTP OUTFALL NR BUTNER

Station #: J1210000

Hydrologic Unit Code: 03020201

Latitude: 36.12797

Longitude: -78.79852

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 27-4-(6)

Time period: 01/05/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	35	0	<4	0	0		4.3	5.7	6.1	7.5	9	9.9	11.6
	35	0	<5	2	5.7		4.3	5.7	6.1	7.5	9	9.9	11.6
pH (SU)	36	0	<6	0	0		6.1	6.7	6.9	7.1	7.2	7.3	7.4
	36	0	>9	0	0		6.1	6.7	6.9	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	36	0	N/A				84	115	173	293	411	433	462
Water Temperature (°C)	36	0	>32	0	0		4.7	8.9	12.5	18.4	24.5	27.4	29.4
Other													
Hardness (mg/L)	14	0	>100	0	0		26	33	48	56	59	62	63
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	11	15.6	34
Turbidity (NTU)	36	0	>50	0	0		1.4	1.8	2.5	4.6	10.3	18.6	25
Nutrients (mg/L)													
NH3 as N	36	4	N/A				0.02	0.02	0.03	0.04	0.05	0.07	0.08
NO2 + NO3 as N	36	0	>10	0	0		0.33	0.59	1.13	2.75	3.98	5.66	6.1
TKN as N	35	0	N/A				0.4	0.6	0.7	0.83	0.99	1.08	1.4
Total Phosphorus	35	0	N/A				0.03	0.06	0.12	0.28	0.77	1.24	3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
35	51.2	3	8.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ELLERBE CRK AT SR 1636 NR DURHAM

Station #: J1330000

Hydrologic Unit Code: 03020201

Latitude: 36.05949

Longitude: -78.83224

Stream class: WS-IV NSW CA

Agency: NCAMBNT

NC stream index: 27-5-(2)

Time period: 01/05/2009 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	35	0	<4	0	0		6.2	6.7	7.2	8.7	10.3	11.4	11.9
	35	0	<5	0	0		6.2	6.7	7.2	8.7	10.3	11.4	11.9
pH (SU)	36	0	<6	0	0		6.7	7.1	7.3	7.4	7.6	7.7	8
	36	0	>9	0	0		6.7	7.1	7.3	7.4	7.6	7.7	8
Spec. conductance (umhos/cm at 25°C)	36	0	N/A				147	211	320	398	443	484	494
Water Temperature (°C)	36	0	>32	0	0		7	9.3	12.4	17.8	23.2	27.2	29
Other													
Hardness (mg/L)	14	0	>100	0	0		38	38	49	60	67	72	73
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	7.8	30	120
Turbidity (NTU)	36	1	>50	3	8.3		1	1.4	4.1	5.6	12.5	41.9	85
Nutrients (mg/L)													
NH3 as N	36	11	N/A				0.02	0.02	0.02	0.03	0.1	0.94	1.3
NO2 + NO3 as N	36	0	>10	0	0		0.32	0.49	1.32	2.35	3.27	4.49	8.3
TKN as N	36	0	N/A				0.68	0.8	0.94	1	1.25	2.03	4.7
Total Phosphorus	35	0	N/A				0.05	0.08	0.08	0.12	0.22	0.27	0.35
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
35	183.9	12	34.3	96.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 2000 NR FALLS

Station #: J1890000

Hydrologic Unit Code: 03020201

Latitude: 35.94077

Longitude: -78.58010

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 27-(20.7)

Time period: 01/15/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	36	0	<4	0	0		4.7	6.6	7	8.8	11.2	12.5	13.7
	36	0	<5	1	2.8		4.7	6.6	7	8.8	11.2	12.5	13.7
pH (SU)	36	0	<6	0	0		6.5	6.7	7	7.2	7.4	7.7	7.9
	36	0	>9	0	0		6.5	6.7	7	7.2	7.4	7.7	7.9
Spec. conductance (umhos/cm at 25°C)	35	0	N/A				70	83	87	100	122	131	143
Water Temperature (°C)	36	0	>32	0	0		4	7.8	10.7	17.4	24.6	28.8	30.7
Other													
Hardness (mg/L)	14	0	>100	0	0		26	26	27	29	31	33	33
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	10.1	12	12
Turbidity (NTU)	36	0	>50	0	0		2.8	3.3	3.7	4.4	7.9	12	14
Nutrients (mg/L)													
NH3 as N	36	6	N/A				0.02	0.02	0.02	0.07	0.18	0.3	0.49
NO2 + NO3 as N	36	16	>10	0	0		0.02	0.02	0.02	0.03	0.11	0.16	0.24
TKN as N	36	0	N/A				0.41	0.46	0.54	0.66	0.75	0.84	1.4
Total Phosphorus	36	0	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
36	5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SMITH CRK AT SR 2045 BURLINGTON MILL RD NR WAKE FOREST

Station #: J2230000

Hydrologic Unit Code: 03020201

Latitude: 35.91820

Longitude: -78.53480

Stream class: C NSW

Agency: LNBA

NC stream index: 27-23-(2)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		6.1	6.3	6.7	7.8	9.6	10.8	12.4
	80	0	<5	0	0		6.1	6.3	6.7	7.8	9.6	10.8	12.4
pH (SU)	81	0	<6	1	1.2		5.8	6.7	6.8	7	7.1	7.2	7.4
	81	0	>9	0	0		5.8	6.7	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	81	0	N/A				84	100	118	140	162	188	206
Water Temperature (°C)	81	0	>32	0	0		3.1	6.1	10.9	20.5	24.7	25.7	28.7
Other													
TSS (mg/L)	44	3	N/A				1	2.9	4.1	6.5	10	17.5	68
Turbidity (NTU)	44	0	>50	1	2.3		2.8	4.1	7	9.4	12.8	22	80
Nutrients (mg/L)													
NH3 as N	44	5	N/A				0.01	0.02	0.04	0.06	0.09	0.21	0.67
NO2 + NO3 as N	44	0	N/A				0.15	0.29	0.45	0.77	0.88	1.04	1.34
TKN as N	44	2	N/A				0.2	0.27	0.34	0.54	0.81	1.09	2.32
Total Phosphorus	42	6	N/A				0.02	0.02	0.03	0.05	0.07	0.1	0.37

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	172	11	25	74.6

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 2215 BUFFALO RD NR NEUSE

Station #: J2330000

Hydrologic Unit Code: 03020201

Latitude: 35.84790

Longitude: -78.53020

Stream class: C NSW

Agency: LNBA

NC stream index: 27-(22.5)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.8	6.4	6.6	7.4	9.7	10.6	11.4
	83	0	<5	0	0		5.8	6.4	6.6	7.4	9.7	10.6	11.4
pH (SU)	84	0	<6	0	0		6.5	6.8	7	7.1	7.2	7.4	7.5
	84	0	>9	0	0		6.5	6.8	7	7.1	7.2	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				96	102	108	130	148	174	231
Water Temperature (°C)	84	0	>32	0	0		4.3	7	11.8	21.1	26.1	27.6	31.1
Other													
TSS (mg/L)	60	1	N/A				2.9	4.8	8.4	12	15	18	129
Turbidity (NTU)	60	0	>50	1	1.7		4	6.2	7.7	13	16.8	19.9	170
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.04	0.06	0.09	0.13	0.18	0.36
NO2 + NO3 as N	60	0	N/A				0.02	0.07	0.14	0.22	0.34	0.41	1.02
TKN as N	60	0	N/A				0.29	0.42	0.48	0.62	0.8	1.08	1.44
Total Phosphorus	56	4	N/A				0.02	0.02	0.04	0.05	0.07	0.09	0.38
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	92.8	10	16.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV ABOVE MILBURNIE DAM NR RALEIGH

Station #: J2360000

Hydrologic Unit Code: 03020201

Latitude: 35.80222

Longitude: -78.53861

Stream class: C NSW

Agency: LNBA

NC stream index: 27-(22.5)

Time period: 01/30/2009 to 12/19/2011

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	50	0	<4	0	0		5.1	5.5	6.1	6.9	9	10.2	11.2
	50	0	<5	0	0		5.1	5.5	6.1	6.9	9	10.2	11.2
pH (SU)	51	0	<6	0	0		6.4	6.6	6.8	7	7.2	7.4	8.1
	51	0	>9	0	0		6.4	6.6	6.8	7	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				83	99	105	144	207	230	312
Water Temperature (°C)	51	0	>32	1	2		4.4	6.8	12	22	26.5	29.3	32.5
Other													
TSS (mg/L)	36	2	N/A				2.9	3.6	5.5	7	9.6	16.6	28
Turbidity (NTU)	36	0	>50	1	2.8		2.8	5	6.6	9.8	16	31.6	65
Nutrients (mg/L)													
NH3 as N	36	3	N/A				0.01	0.01	0.03	0.06	0.09	0.18	1.25
NO2 + NO3 as N	36	10	N/A				0.01	0.01	0.01	0.11	0.28	0.46	0.81
TKN as N	36	0	N/A				0.28	0.43	0.59	0.7	1.06	1.28	1.73
Total Phosphorus	32	1	N/A				0.02	0.03	0.04	0.06	0.09	0.18	0.55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
36	33.1	5	13.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CRABTREE CRK AT SR 1795 NR UMSTEAD STATE PARK

Station #: J2850000

Hydrologic Unit Code: 03020201

Latitude: 35.83770

Longitude: -78.78084

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 27-33-(3.5)

Time period: 01/15/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	4	12.5	60	1.6	2.6	6.5	7.8	10.7	12.1	13.8
	32	0	<5	5	15.6	78.8	1.6	2.6	6.5	7.8	10.7	12.1	13.8
pH (SU)	32	0	<6	0	0		6.5	6.8	7	7.2	7.3	7.6	7.7
	32	0	>9	0	0		6.5	6.8	7	7.2	7.3	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				77	83	91	114	145	174	296
Water Temperature (°C)	32	0	>32	0	0		3.1	7	11.5	18.4	25.9	28	31.6
Other													
Hardness (mg/L)	14	0	N/A				19	19	22	28	37	38	39
TSS (mg/L)	20	2	N/A				6.2	10	14	14.5	17.8	22.9	27
Turbidity (NTU)	32	0	>50	0	0		6.7	10.6	15	20	24.5	32.7	50
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	32.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CRABTREE CRK AT SR 1649 NR RALEIGH

Station #: J3000000

Hydrologic Unit Code: 03020201

Latitude: 35.84545

Longitude: -78.72444

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 27-33-(3.5)

Time period: 01/15/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		5.4	6.2	6.6	7.8	9.3	11.5	12.4
	32	0	<5	0	0		5.4	6.2	6.6	7.8	9.3	11.5	12.4
pH (SU)	32	0	<6	0	0		6.8	6.9	7.1	7.2	7.4	7.6	7.7
	32	0	>9	0	0		6.8	6.9	7.1	7.2	7.4	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				72	133	182	227	287	405	510
Water Temperature (°C)	32	0	>32	0	0		3.2	7.2	13.1	17.1	23.5	26.2	28.9
Other													
Hardness (mg/L)	14	0	N/A				25	28	36	42	48	56	62
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	12	47.6	151
Turbidity (NTU)	32	0	>50	0	0		2.4	3.1	3.8	6.8	14.5	21.4	45
Nutrients (mg/L)													
NH3 as N	32	4	N/A				0.02	0.02	0.02	0.04	0.05	0.07	0.09
NO2 + NO3 as N	32	0	N/A				0.06	0.09	0.21	0.41	0.67	1.17	1.8
TKN as N	32	0	N/A				0.45	0.53	0.62	0.74	0.79	0.94	1
Total Phosphorus	32	0	N/A				0.04	0.06	0.1	0.15	0.25	0.55	1.4
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	65.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CRABTREE CRK AT LASSITER MILL DAM AT RALEIGH

Station #: J3210000

Hydrologic Unit Code: 03020201

Latitude: 35.82722

Longitude: -78.65083

Stream class: C NSW

Agency: LNBA

NC stream index: 27-33-(10)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	1	1.2		3.8	5.8	6.3	7.1	9.4	10.3	11.3
	83	0	<5	4	4.8		3.8	5.8	6.3	7.1	9.4	10.3	11.3
pH (SU)	84	0	<6	0	0		6.4	6.8	6.9	7.1	7.2	7.3	7.5
	84	0	>9	0	0		6.4	6.8	6.9	7.1	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				91	114	140	173	204	232	306
Water Temperature (°C)	84	0	>32	0	0		4	7.1	11.9	22.2	25.5	27.4	30.3
Other													
TSS (mg/L)	60	1	N/A				2.8	4.1	6	9.9	16.5	24.9	48
Turbidity (NTU)	60	0	>50	1	1.7		4	5.7	8.4	14	17.8	24	70
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.05	0.08	0.12	0.19	0.48
NO2 + NO3 as N	60	0	N/A				0.06	0.15	0.26	0.35	0.53	0.81	1.72
TKN as N	60	1	N/A				0.2	0.43	0.57	0.72	0.98	1.24	1.61
Total Phosphorus	56	1	N/A				0.02	0.05	0.06	0.09	0.16	0.28	0.34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	151.7	17	28.3	92.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CRABTREE CRK AT SR 2000 OLD WAKE FOREST RD AT RALEIGH

Station #: J3251000

Hydrologic Unit Code: 03020201

Latitude: 35.81584

Longitude: -78.62568

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 27-33-(10)

Time period: 01/15/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		5.2	5.6	7.1	8.5	9.7	12	13.5
	32	0	<5	0	0		5.2	5.6	7.1	8.5	9.7	12	13.5
pH (SU)	32	0	<6	0	0		6.2	6.6	6.8	7	7.3	7.4	7.6
	32	0	>9	0	0		6.2	6.6	6.8	7	7.3	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				80	128	151	177	207	285	353
Water Temperature (°C)	32	0	>32	0	0		2.8	6.6	12.4	16.8	23.2	26	29.9
Other													
Hardness (mg/L)	14	0	N/A				25	26	34	37	42	48	48
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	11.3	28.1	58
Turbidity (NTU)	32	0	>50	1	3.1		2.5	3.2	5.2	8.3	14	29.3	55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
32	170.5		6	18.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PIGEON HOUSE BRANCH AT DORTCH ST AT RALEIGH

Station #: J3300000

Hydrologic Unit Code: 03020201

Latitude: 35.79387

Longitude: -78.64262

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 27-33-18

Time period: 01/15/2009 to 12/06/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4.3	5.3	6.3	8.1	9.5	11	12.8
	32	0	<5	1	3.1		4.3	5.3	6.3	8.1	9.5	11	12.8
pH (SU)	32	0	<6	0	0		6.5	6.7	7	7.1	7.3	7.6	7.9
	32	0	>9	0	0		6.5	6.7	7	7.1	7.3	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				143	194	297	316	333	378	449
Water Temperature (°C)	32	0	>32	0	0		6.3	8.2	12.6	16.8	21.7	24.6	27.5
Other													
Hardness (mg/L)	14	0	N/A				46	54	71	83	90	96	99
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	14
Turbidity (NTU)	32	0	>50	0	0		1.4	1.5	2.2	3.4	6	12.8	14
Nutrients (mg/L)													
NH3 as N	3	2	N/A				0.02	0.02	0.02	0.02	0.04	0.04	0.04
NO2 + NO3 as N	3	0	N/A				1.8	1.8	1.8	2.2	2.7	2.7	2.7
TKN as N	3	0	N/A				0.22	0.22	0.22	0.33	0.38	0.38	0.38
Total Phosphorus	3	0	N/A				0.04	0.04	0.04	0.05	0.06	0.06	0.06
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	974.7	28	87.5	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: WALNUT CRK AT SR 2551 BARWELL RD NR RALEIGH

Station #: J3970000

Hydrologic Unit Code: 03020201

Latitude: 35.74930

Longitude: -78.53450

Stream class: C NSW

Agency: LNBA

NC stream index: 27-34-(4)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.8	6.4	6.8	7.6	9.9	10.6	12.6
	83	0	<5	0	0		5.8	6.4	6.8	7.6	9.9	10.6	12.6
pH (SU)	84	0	<6	0	0		6.5	6.7	6.8	7	7.2	7.3	7.5
	84	0	>9	0	0		6.5	6.7	6.8	7	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				66	100	125	162	182	200	224
Water Temperature (°C)	84	0	>32	0	0		3.4	6.6	11.2	21.1	24.8	25.9	28.8
Other													
TSS (mg/L)	60	7	N/A				2.3	2.9	3.6	5.5	11	16.9	75
Turbidity (NTU)	60	0	>50	1	1.7		3.8	7.2	8.2	11	15.8	28.5	120
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.05	0.08	0.1	0.16	0.4
NO2 + NO3 as N	60	0	N/A				0.08	0.15	0.24	0.34	0.44	0.51	0.64
TKN as N	60	1	N/A				0.2	0.29	0.37	0.49	0.65	1.22	2.03
Total Phosphorus	56	5	N/A				0.02	0.02	0.03	0.05	0.07	0.12	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	198.3	16	26.7	86.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NEUSE RIV AT SR 2555 AUBURN KNIGHTDALE RD NR RALEIGH
Station #: J4050000 **Hydrologic Unit Code:** 03020201
Latitude: 35.72660 **Longitude:** -78.51390 **Stream class:** C NSW
Agency: LNBA **NC stream index:** 27-(22.5)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.9	6.5	6.7	7.4	9.8	10.8	11.8
	83	0	<5	0	0		5.9	6.5	6.7	7.4	9.8	10.8	11.8
pH (SU)	84	0	<6	0	0		6.6	6.8	6.9	7.1	7.2	7.3	7.5
	84	0	>9	0	0		6.6	6.8	6.9	7.1	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				93	104	116	138	156	170	185
Water Temperature (°C)	84	0	>32	1	1.2		4	7.1	11.4	20.9	25.6	27.9	32.4
Other													
TSS (mg/L)	60	2	N/A				2.6	3.8	5.9	11	18	26	72
Turbidity (NTU)	60	0	>50	2	3.3		3.9	5.6	8	12	23	31	55
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.03	0.05	0.09	0.11	0.15	0.42
NO2 + NO3 as N	60	0	N/A				0.04	0.11	0.17	0.24	0.32	0.39	0.46
TKN as N	60	0	N/A				0.27	0.37	0.5	0.58	0.87	1.1	1.54
Total Phosphorus	56	4	N/A				0.02	0.02	0.03	0.05	0.08	0.1	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	135.7	16	26.7	86.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: POPLAR CRK AT SR 2049 BETHLEHEM RD NR KNIGHTDALE

Station #: J4080000

Hydrologic Unit Code: 03020201

Latitude: 35.73090

Longitude: -78.47760

Stream class: C NSW

Agency: LNBA

NC stream index: 27-35

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	82	0	<4	0	0		6.1	6.6	7.1	7.7	9.9	11.1	12.2
	82	0	<5	0	0		6.1	6.6	7.1	7.7	9.9	11.1	12.2
pH (SU)	83	0	<6	0	0		6.6	6.8	6.9	7.1	7.3	7.3	7.5
	83	0	>9	0	0		6.6	6.8	6.9	7.1	7.3	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				85	107	116	129	163	189	217
Water Temperature (°C)	83	0	>32	0	0		2.8	5.4	10.5	19.5	23.7	24.7	28.6
Other													
TSS (mg/L)	58	8	N/A				2.1	2.9	3.9	6.6	10.2	15.6	1210
Turbidity (NTU)	58	0	>50	2	3.4		3.3	5.8	7.3	11	16	20.2	85
Nutrients (mg/L)													
NH3 as N	58	2	N/A				0.01	0.03	0.07	0.09	0.16	0.26	0.5
NO2 + NO3 as N	58	0	N/A				0.5	0.78	1.27	1.66	2.02	2.71	3.39
TKN as N	58	1	N/A				0.2	0.32	0.54	0.69	1.01	1.21	1.79
Total Phosphorus	54	0	N/A				0.07	0.09	0.11	0.14	0.22	0.31	0.83
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	255.4	18	31	96.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MARKS CRK AT SR 1714 NR ARCHERS LODGE

Station #: J4110000

Hydrologic Unit Code: 03020201

Latitude: 35.70615

Longitude: -78.43127

Stream class: C NSW

Agency: LNBA

NC stream index: 27-38

Time period: 09/12/2011 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	<4	0	0		5.9	6.4	6.7	7.5	9.7	10.6	11.8
	38	0	<5	0	0		5.9	6.4	6.7	7.5	9.7	10.6	11.8
pH (SU)	38	0	<6	0	0		6.6	6.7	6.9	7	7.1	7.2	7.2
	38	0	>9	0	0		6.6	6.7	6.9	7	7.1	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				77	88	104	132	155	184	207
Water Temperature (°C)	38	0	>32	0	0		3.1	6.9	8.3	18.6	23.9	25.4	27.1
Other													
TSS (mg/L)	28	6	N/A				2.8	2.9	3.1	5.5	9.2	15.3	41
Turbidity (NTU)	28	0	>50	0	0		3	4.8	5.7	7	10.5	17.1	40
Nutrients (mg/L)													
NH3 as N	28	2	N/A				0.02	0.02	0.04	0.06	0.08	0.12	0.19
NO2 + NO3 as N	28	3	N/A				0.02	0.02	0.05	0.1	0.15	0.17	0.21
TKN as N	28	0	N/A				0.25	0.28	0.39	0.56	0.71	0.82	0.92
Total Phosphorus	28	4	N/A				0.02	0.02	0.03	0.04	0.05	0.11	0.17
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
28	78.4	1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 1700 COVERED BRIDGE RD NR ARCHERS LODGE

Station #: J4130000

Hydrologic Unit Code: 03020201

Latitude: 35.67490

Longitude: -78.43640

Stream class: WS-V NSW

Agency: LNBA

NC stream index: 27-(36)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.7	6.3	6.7	7.4	9.6	10.6	11.6
	83	0	<5	0	0		5.7	6.3	6.7	7.4	9.6	10.6	11.6
pH (SU)	84	0	<6	0	0		6.7	6.8	6.9	7	7.2	7.3	7.5
	84	0	>9	0	0		6.7	6.8	6.9	7	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				95	131	147	170	220	246	312
Water Temperature (°C)	84	0	>32	0	0		3.7	7	11.8	20.7	25	27.9	31.6
Other													
TSS (mg/L)	60	4	N/A				1	3.1	6.2	14.5	22	35.9	123
Turbidity (NTU)	60	0	>50	2	3.3		3.4	5.1	8.5	12	24.8	34.9	90
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.02	0.04	0.07	0.1	0.15	0.33
NO2 + NO3 as N	60	0	>10	0	0		0.08	0.21	0.37	0.53	0.8	1.2	1.46
TKN as N	60	0	N/A				0.35	0.47	0.55	0.7	1.01	1.25	1.49
Total Phosphorus	56	0	N/A				0.03	0.07	0.1	0.16	0.31	0.47	0.62
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	114.2	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT NC 42 NR CLAYTON

Station #: J4170000

Hydrologic Unit Code: 03020201

Latitude: 35.64732

Longitude: -78.40567

Stream class: WS-IV NSW

Agency: LNBA

NC stream index: 27-(38.5)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.1	6.4	6.6	7.4	9.4	10.5	11.5
	83	0	<5	0	0		5.1	6.4	6.6	7.4	9.4	10.5	11.5
pH (SU)	84	0	<6	0	0		6.7	6.8	6.9	7	7.2	7.3	7.9
	84	0	>9	0	0		6.7	6.8	6.9	7	7.2	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				92	124	149	177	212	256	315
Water Temperature (°C)	84	0	>32	0	0		3.8	6.8	11.9	20.8	25.3	27.9	31
Other													
TSS (mg/L)	60	2	N/A				3	3.7	5.6	12	22.8	36.7	81
Turbidity (NTU)	60	0	>50	0	0		3.1	4.5	7.9	12	24	34.7	50
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.03	0.05	0.08	0.11	0.15	0.37
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.23	0.31	0.48	0.62	0.91	1.21
TKN as N	60	1	N/A				0.2	0.44	0.55	0.69	0.92	1.16	2.49
Total Phosphorus	56	0	N/A				0.05	0.07	0.1	0.17	0.34	0.47	0.54
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	108.3	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT NC 42 NR CLAYTON

Station #: J4170000

Hydrologic Unit Code: 03020201

Latitude: 35.64732

Longitude: -78.40567

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 27-(38.5)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4.9	5.4	6.2	8.4	10.8	11.9	14.8
	32	0	<5	1	3.1		4.9	5.4	6.2	8.4	10.8	11.9	14.8
pH (SU)	32	0	<6	0	0		6.5	6.6	6.8	7.1	7.3	7.4	8.2
	32	0	>9	0	0		6.5	6.6	6.8	7.1	7.3	7.4	8.2
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				102	118	144	190	234	282	293
Water Temperature (°C)	32	0	>32	0	0		4.5	7.7	10.7	16.8	24.7	27.8	30.8
Other													
Hardness (mg/L)	14	0	>100	0	0		30	30	32	35	39	39	39
TSS (mg/L)	20	7	N/A				6.2	6.2	6.3	10.1	20.2	25.6	31
Turbidity (NTU)	32	0	>50	0	0		1.8	4.1	6.5	13	20.2	30.5	45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	115.2	6	18.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 1908 FIRE DEPT RD NR WILSON MILLS

Station #: J4190000

Hydrologic Unit Code: 03020201

Latitude: 35.60670

Longitude: -78.33740

Stream class: WS-IV NSW

Agency: LNBA

NC stream index: 27-(38.5)

Time period: 01/30/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.7	6.4	6.7	7.5	9.8	10.6	11.6
	83	0	<5	0	0		5.7	6.4	6.7	7.5	9.8	10.6	11.6
pH (SU)	84	0	<6	0	0		6.6	6.8	6.9	7.1	7.2	7.3	7.8
	84	0	>9	0	0		6.6	6.8	6.9	7.1	7.2	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				94	126	140	178	195	242	324
Water Temperature (°C)	84	0	>32	1	1.2		3.5	6.7	11.7	20.6	25.5	27.9	32.1
Other													
TSS (mg/L)	60	4	N/A				1.8	3.1	6	12.5	23.8	45.2	291
Turbidity (NTU)	60	0	>50	3	5		3.3	4.8	8.1	12.5	24.8	37.7	65
Nutrients (mg/L)													
NH3 as N	60	5	N/A				0.01	0.02	0.04	0.07	0.09	0.1	0.4
NO2 + NO3 as N	60	0	>10	0	0		0.07	0.26	0.32	0.44	0.64	0.86	1.15
TKN as N	60	0	N/A				0.2	0.43	0.54	0.73	1	1.38	1.92
Total Phosphorus	56	0	N/A				0.03	0.06	0.1	0.18	0.29	0.41	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	126.4	13	21.7	57.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT US 70 BUS AT SMITHFIELD

Station #: J4370000

Hydrologic Unit Code: 03020201

Latitude: 35.51283

Longitude: -78.34988

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 27-(41.7)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		5.8	5.9	6.3	8.6	10.4	11.7	12.7
	32	0	<5	0	0		5.8	5.9	6.3	8.6	10.4	11.7	12.7
pH (SU)	32	0	<6	0	0		6.7	6.8	7	7.2	7.5	7.6	7.9
	32	0	>9	0	0		6.7	6.8	7	7.2	7.5	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				72	113	130	166	231	278	297
Water Temperature (°C)	32	0	>32	0	0		3.4	7.5	10.4	15.6	24.6	28.4	29.5
Other													
Hardness (mg/L)	14	0	>100	0	0		27	28	31	34	40	40	41
TSS (mg/L)	20	4	N/A				6.2	6.2	9.9	16	24	41	44
Turbidity (NTU)	32	0	>50	1	3.1		4	4.9	12.2	16.5	23.5	32	55
Nutrients (mg/L)													
NH3 as N	32	14	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.05
NO2 + NO3 as N	32	0	>10	0	0		0.21	0.25	0.31	0.45	0.69	0.99	1.1
TKN as N	32	0	N/A				0.4	0.43	0.48	0.56	0.63	0.71	0.82
Total Phosphorus	32	0	N/A				0.1	0.11	0.14	0.2	0.27	0.4	0.48
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	148.9	8	25	69.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT SR 1152 HOLLY SPRINGS RD NR MACEDONIA

Station #: J4414000

Hydrologic Unit Code: 03020201

Latitude: 35.71877

Longitude: -78.75270

Stream class: WS-III NSW

Agency: LNBA

NC stream index: 27-43-(1)

Time period: 01/30/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	1	1.2		3.3	5.4	6.4	7.2	8.7	10.3	12.4
	83	0	<5	5	6		3.3	5.4	6.4	7.2	8.7	10.3	12.4
pH (SU)	84	0	<6	0	0		6.5	6.6	6.7	6.9	7.1	7.2	7.5
	84	0	>9	0	0		6.5	6.6	6.7	6.9	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				60	74	91	128	196	224	277
Water Temperature (°C)	84	0	>32	0	0		2.8	7.2	12.1	21.7	24.8	26.1	29.4
Other													
TSS (mg/L)	59	9	N/A				1	2.9	3.7	6.9	12	17	88
Turbidity (NTU)	59	0	>50	1	1.7		1.6	6	7.4	10	13	19	65
Nutrients (mg/L)													
NH3 as N	59	2	N/A				0.01	0.03	0.06	0.08	0.11	0.18	0.29
NO2 + NO3 as N	59	4	>10	0	0		0.01	0.03	0.08	0.17	1.06	1.49	1.99
TKN as N	59	0	N/A				0.26	0.38	0.49	0.61	0.89	1.41	4.48
Total Phosphorus	55	3	N/A				0.02	0.04	0.05	0.06	0.09	0.12	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	132.6	11	18.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT INDIAN CREEK DISCHARGE NR GARNER

Station #: J4500000

Hydrologic Unit Code: 03020201

Latitude: 35.64767

Longitude: -78.60417

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-(8)

Time period: 09/12/2011 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	39	0	<4	2	5.1		2.7	4.2	6.4	7.3	9	10.3	11
	39	0	<5	7	17.9	91	2.7	4.2	6.4	7.3	9	10.3	11
pH (SU)	39	0	<6	0	0		6.5	6.7	6.8	7	7.2	7.2	7.4
	39	0	>9	0	0		6.5	6.7	6.8	7	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				78	85	96	144	159	165	214
Water Temperature (°C)	39	0	>32	0	0		5.8	7.8	11.5	21.6	24.8	26.4	27.3
Other													
TSS (mg/L)	28	2	N/A				2.8	3.3	5	8.5	14.8	18	21
Turbidity (NTU)	28	0	>50	1	3.6		4.6	5.4	8.8	11	18.8	25.3	290
Nutrients (mg/L)													
NH3 as N	28	0	N/A				0.03	0.05	0.05	0.08	0.11	0.23	1.88
NO2 + NO3 as N	28	1	N/A				0.02	0.03	0.05	0.11	0.33	0.68	0.97
TKN as N	28	0	N/A				0.37	0.42	0.7	0.86	0.98	2.13	3.24
Total Phosphorus	28	1	N/A				0.02	0.03	0.04	0.07	0.2	0.3	0.83
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
28	115.7	5	17.9										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT NC 42 NR CLAYTON

Station #: J4510000

Hydrologic Unit Code: 03020201

Latitude: 35.61314

Longitude: -78.54863

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-(8)

Time period: 09/12/2011 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	39	0	<4	0	0		5.6	6.2	6.4	7.3	8.2	10.3	12.1
	39	0	<5	0	0		5.6	6.2	6.4	7.3	8.2	10.3	12.1
pH (SU)	39	0	<6	0	0		6.7	6.8	6.9	6.9	7.2	7.2	7.3
	39	0	>9	0	0		6.7	6.8	6.9	6.9	7.2	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				72	87	96	150	162	179	216
Water Temperature (°C)	39	0	>32	0	0		4	7.7	10.7	20.6	24.3	24.9	26.8
Other													
TSS (mg/L)	28	7	N/A				2.9	2.9	3	6.4	9.1	30.3	99
Turbidity (NTU)	28	0	>50	2	7.1		3.2	4.5	5.7	8.4	11.5	36.6	120
Nutrients (mg/L)													
NH3 as N	28	1	N/A				0.02	0.03	0.04	0.05	0.09	0.12	0.26
NO2 + NO3 as N	28	1	N/A				0.02	0.06	0.09	0.16	0.27	0.37	0.81
TKN as N	28	0	N/A				0.29	0.35	0.44	0.63	0.91	1.59	3.09
Total Phosphorus	28	2	N/A				0.02	0.04	0.04	0.06	0.09	0.14	0.67
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
28	132.1	4	14.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT NC 42 NR CLAYTON

Station #: J4510000

Hydrologic Unit Code: 03020201

Latitude: 35.61314

Longitude: -78.54863

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 27-43-(8)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4.1	5	6.8	8.2	10.1	11.5	13.2
	32	0	<5	2	6.2		4.1	5	6.8	8.2	10.1	11.5	13.2
pH (SU)	32	0	<6	0	0		6.2	6.7	7	7.1	7.3	7.6	8.2
	32	0	>9	0	0		6.2	6.7	7	7.1	7.3	7.6	8.2
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				65	73	77	88	95	99	100
Water Temperature (°C)	32	0	>32	0	0		1.4	6.5	8.7	14.8	22.6	26.8	27.3
Other													
Hardness (mg/L)	14	0	N/A				21	22	24	25	29	32	34
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	12	12	19.4	31
Turbidity (NTU)	32	0	>50	0	0		2.8	4.1	6.2	7.5	13.8	22.4	31
Nutrients (mg/L)													
NH3 as N	32	6	N/A				0.02	0.02	0.02	0.03	0.06	0.1	0.11
NO2 + NO3 as N	32	1	N/A				0.02	0.05	0.08	0.17	0.21	0.26	0.31
TKN as N	32	0	N/A				0.3	0.33	0.44	0.51	0.58	0.65	0.68
Total Phosphorus	32	0	N/A				0.02	0.03	0.05	0.05	0.07	0.08	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	158.9	6	18.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: WHITE OAK CRK AT NC 42 NR CLAYTON

Station #: J4511000

Hydrologic Unit Code: 03020201

Latitude: 35.61765

Longitude: -78.52818

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-11

Time period: 09/12/2011 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	39	0	<4	1	2.6		3.2	5.2	6.5	7.2	8.3	10.6	11.5
	39	0	<5	3	7.7		3.2	5.2	6.5	7.2	8.3	10.6	11.5
pH (SU)	39	0	<6	0	0		6.8	6.8	6.9	6.9	7.1	7.2	7.3
	39	0	>9	0	0		6.8	6.8	6.9	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				59	66	72	141	160	183	203
Water Temperature (°C)	39	0	>32	0	0		6	8.3	10.9	21.3	24.5	26.4	29.3
Other													
TSS (mg/L)	28	0	N/A				4.4	5.5	7.1	7.9	10.6	16.2	22
Turbidity (NTU)	28	0	>50	0	0		7.5	7.9	9.1	11	17.5	20.2	31
Nutrients (mg/L)													
NH3 as N	28	2	N/A				0.02	0.02	0.04	0.06	0.09	0.19	0.28
NO2 + NO3 as N	28	8	N/A				0.02	0.02	0.02	0.03	0.06	0.1	0.22
TKN as N	28	0	N/A				0.38	0.6	0.7	0.81	1.03	1.25	1.54
Total Phosphorus	28	1	N/A				0.02	0.04	0.05	0.06	0.09	0.13	0.15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
28	56.8	2	7.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT SR 1562 NR SMITHFIELD

Station #: J4520000

Hydrologic Unit Code: 03020201

Latitude: 35.55155

Longitude: -78.46002

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-(8)

Time period: 09/12/2011 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	39	0	<4	0	0		6.1	6.4	6.6	7.3	8.5	10.4	12.1
	39	0	<5	0	0		6.1	6.4	6.6	7.3	8.5	10.4	12.1
pH (SU)	39	0	<6	0	0		6.6	6.7	6.8	7	7.1	7.2	7.4
	39	0	>9	0	0		6.6	6.7	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				71	79	102	133	168	177	231
Water Temperature (°C)	39	0	>32	0	0		4.3	7.7	10.8	21	24.2	25.5	26.5
Other													
TSS (mg/L)	28	10	N/A				2.7	2.9	3.1	6	8.9	30.7	106
Turbidity (NTU)	28	0	>50	1	3.6		2.4	3.7	5.5	8.1	12.8	34.2	150
Nutrients (mg/L)													
NH3 as N	28	3	N/A				0.02	0.02	0.04	0.05	0.08	0.12	0.24
NO2 + NO3 as N	28	1	N/A				0.02	0.04	0.07	0.11	0.19	0.24	0.28
TKN as N	28	0	N/A				0.29	0.35	0.43	0.56	0.81	1.06	1.77
Total Phosphorus	28	2	N/A				0.02	0.02	0.04	0.05	0.08	0.12	0.17
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
28	141.2	4	14.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT SR 1501 SWIFT CREEK RD NR SMITHFIELD

Station #: J4580000

Hydrologic Unit Code: 03020201

Latitude: 35.54420

Longitude: -78.39700

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-(8)

Time period: 04/19/2012 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		6	6.4	6.8	7.2	9.2	10.5	13.1
	31	0	<5	0	0		6	6.4	6.8	7.2	9.2	10.5	13.1
pH (SU)	31	0	<6	0	0		6.4	6.7	6.8	7	7.1	7.2	8.1
	31	0	>9	0	0		6.4	6.7	6.8	7	7.1	7.2	8.1
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				65	76	91	112	138	145	170
Water Temperature (°C)	31	0	>32	0	0		6.1	8.3	12.9	21.2	23.9	26.1	27.4
Other													
TSS (mg/L)	21	8	N/A				2.8	2.9	3	4.6	10.1	55.4	88
Turbidity (NTU)	21	0	>50	2	9.5		3.2	4.8	6.1	7.1	10.7	51.2	65
Nutrients (mg/L)													
NH3 as N	21	1	N/A				0.02	0.02	0.04	0.06	0.07	0.1	0.16
NO2 + NO3 as N	21	0	N/A				0.02	0.04	0.1	0.2	0.24	0.28	0.32
TKN as N	21	0	N/A				0.21	0.3	0.42	0.54	0.81	1.04	1.15
Total Phosphorus	21	4	N/A				0.02	0.02	0.03	0.06	0.08	0.09	0.11
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
20	130.3	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT NC 210 NR SMITHFIELD

Station #: J4590000

Hydrologic Unit Code: 03020201

Latitude: 35.51860

Longitude: -78.38190

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-(8)

Time period: 01/23/2009 to 03/05/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	0	0		6	6.2	6.6	7.5	9.1	10.4	12.5
	54	0	<5	0	0		6	6.2	6.6	7.5	9.1	10.4	12.5
pH (SU)	54	0	<6	0	0		6.1	6.6	6.8	7	7.1	7.2	7.4
	54	0	>9	0	0		6.1	6.6	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				64	76	92	142	170	194	208
Water Temperature (°C)	54	0	>32	0	0		3.9	6.2	10	22.1	26.5	28.1	29.6
Other													
TSS (mg/L)	39	4	N/A				1.8	3.1	4.4	6.4	12	40	2060
Turbidity (NTU)	39	0	>50	2	5.1		3.7	5.9	7.7	11	14	40	1500
Nutrients (mg/L)													
NH3 as N	39	4	N/A				0.01	0.01	0.03	0.08	0.15	0.26	0.35
NO2 + NO3 as N	39	2	N/A				0.02	0.06	0.16	0.19	0.3	0.34	0.57
TKN as N	39	0	N/A				0.22	0.4	0.49	0.79	1.16	1.38	8.09
Total Phosphorus	36	0	N/A				0.04	0.05	0.06	0.09	0.17	0.51	1.89
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
39	120.3	5	12.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: UT TO MIDDLE CRK AT LUFKIN RD AT APEX

Station #: J4619000

Hydrologic Unit Code: 03020201

Latitude: 35.71311

Longitude: -78.83807

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-15-(1)

Time period: 02/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	72	0	<4	1	1.4		1.7	5.8	6.4	6.9	8.7	10	12.3
	72	0	<5	1	1.4		1.7	5.8	6.4	6.9	8.7	10	12.3
pH (SU)	72	0	<6	0	0		6.2	6.4	6.6	6.7	7	7.2	7.7
	72	0	>9	0	0		6.2	6.4	6.6	6.7	7	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	72	0	N/A				52	84	109	156	190	262	384
Water Temperature (°C)	72	0	>32	0	0		3	6.3	11.5	20.4	24.3	26	28.3
Other													
TSS (mg/L)	36	4	N/A				2.9	3.1	4.1	8	9.9	45.9	109
Turbidity (NTU)	36	0	>50	4	11.1	50.8	5.6	6.1	7	10.5	26.8	68	80
Nutrients (mg/L)													
NH3 as N	36	0	N/A				0.02	0.03	0.04	0.08	0.15	0.35	0.58
NO2 + NO3 as N	36	2	N/A				0.02	0.07	0.21	0.51	0.97	1.59	2.7
TKN as N	36	0	N/A				0.3	0.36	0.48	0.72	1.05	1.47	1.81
Total Phosphorus	33	2	N/A				0.02	0.03	0.05	0.12	0.4	0.64	0.99
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
36	257.1	16	44.4	99.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MIDDLE CRK AT SR 1152 HOLLY SPRINGS RD NR HOLLY SPRINGS

Station #: J4690000

Hydrologic Unit Code: 03020201

Latitude: 35.66090

Longitude: -78.80420

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-15-(1)

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.7	6.2	6.5	7.2	8.7	10.1	12.7
	85	0	<5	0	0		5.7	6.2	6.5	7.2	8.7	10.1	12.7
pH (SU)	85	0	<6	0	0		6.3	6.6	6.8	6.9	7.2	7.4	8
	85	0	>9	0	0		6.3	6.6	6.8	6.9	7.2	7.4	8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				86	127	190	247	317	425	598
Water Temperature (°C)	85	0	>32	0	0		3.1	7.1	11.2	20.6	24.4	25.1	28.2
Other													
TSS (mg/L)	60	15	N/A				1.5	2.8	2.9	3.8	6.1	27.8	79
Turbidity (NTU)	60	0	>50	7	11.7	60.5	2.3	4.4	5.2	7.7	13	59.5	200
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.02	0.05	0.07	0.12	0.27	0.67
NO2 + NO3 as N	60	0	N/A				0.2	0.72	1.12	1.51	2.38	3.18	4.62
TKN as N	60	0	N/A				0.57	0.69	0.8	0.95	1.08	1.32	1.74
Total Phosphorus	57	0	N/A				0.05	0.11	0.16	0.38	0.61	1.22	2.37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	209.7	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MIDDLE CRK AT SR 1375 LAKE WHEELER RD NR BANKS

Station #: J4868000

Hydrologic Unit Code: 03020201

Latitude: 35.63560

Longitude: -78.72791

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-15-(4)

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.2	6.3	6.6	7.4	8.8	10.6	12.8
	85	0	<5	0	0		5.2	6.3	6.6	7.4	8.8	10.6	12.8
pH (SU)	85	0	<6	0	0		6.7	6.9	7	7.1	7.2	7.4	8.1
	85	0	>9	0	0		6.7	6.9	7	7.1	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				72	108	127	154	228	365	480
Water Temperature (°C)	85	0	>32	0	0		3.7	7.5	12.7	21.6	24.9	26.2	28.6
Other													
TSS (mg/L)	60	4	N/A				1	3.3	5.6	7.9	12	31.9	116
Turbidity (NTU)	60	0	>50	4	6.7		4.5	6.2	7.3	9.8	17.8	38.9	220
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.06	0.08	0.15	0.23	2.78
NO2 + NO3 as N	60	0	N/A				0.17	0.32	0.47	0.64	0.87	1.24	2.62
TKN as N	60	0	N/A				0.5	0.61	0.7	0.89	1.11	1.32	4.07
Total Phosphorus	57	0	N/A				0.05	0.09	0.11	0.26	0.66	1.03	2.67
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	176.6	11	18.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MIDDLE CRK AT SR 1006 OLD STAGE RD NR WILLOW SPRINGS

Station #: J4980000

Hydrologic Unit Code: 03020201

Latitude: 35.60910

Longitude: -78.68660

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-15-(4)

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.4	6.5	6.8	7.4	8.7	10.6	12.7
	85	0	<5	0	0		5.4	6.5	6.8	7.4	8.7	10.6	12.7
pH (SU)	85	0	<6	0	0		6.5	6.8	6.9	7.1	7.2	7.3	8.2
	85	0	>9	0	0		6.5	6.8	6.9	7.1	7.2	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				81	114	128	155	220	324	465
Water Temperature (°C)	85	0	>32	0	0		1.2	6.7	11	20.7	24.6	26.1	28.4
Other													
TSS (mg/L)	60	1	N/A				2.9	3.9	6.5	9.8	22.8	37.6	109
Turbidity (NTU)	60	0	>50	4	6.7		4	5.4	8.9	13	18.8	45	100
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.03	0.06	0.08	0.17	0.38	0.83
NO2 + NO3 as N	60	0	N/A				0.14	0.24	0.35	0.6	0.72	1.09	2.64
TKN as N	60	0	N/A				0.4	0.61	0.73	0.9	1.06	1.28	6.69
Total Phosphorus	57	0	N/A				0.04	0.07	0.12	0.2	0.39	0.62	1.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	178.7	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MIDDLE CRK AT NC 50 NR CLAYTON

Station #: J5000000

Hydrologic Unit Code: 03020201

Latitude: 35.56894

Longitude: -78.59230

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 27-43-15-(4)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4.9	5.9	6.5	8.9	10.6	12.4	13.2
	32	0	<5	1	3.1		4.9	5.9	6.5	8.9	10.6	12.4	13.2
pH (SU)	32	0	<6	0	0		6.4	6.8	6.9	7.1	7.4	7.5	7.6
	32	0	>9	0	0		6.4	6.8	6.9	7.1	7.4	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				74	128	141	188	222	308	409
Water Temperature (°C)	32	0	>32	0	0		2	6.3	9.5	14.9	22.6	25.9	26.8
Other													
Hardness (mg/L)	14	0	N/A				25	26	30	34	37	48	50
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8.7	17.5	21.8	29
Turbidity (NTU)	32	0	>50	0	0		5.1	5.9	8.1	11.5	19.8	25.7	40
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	132.2	3	9.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MIDDLE CRK OFF SR 1517 NR EDMONDSON

Station #: J5002000

Hydrologic Unit Code: 03020201

Latitude: 35.55640

Longitude: -78.56552

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-15-(4)

Time period: 09/12/2011 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	39	0	<4	0	0		6.3	6.4	6.8	7.7	8.7	10.2	11.3
	39	0	<5	0	0		6.3	6.4	6.8	7.7	8.7	10.2	11.3
pH (SU)	39	0	<6	0	0		6.7	6.8	6.8	7	7.1	7.3	7.5
	39	0	>9	0	0		6.7	6.8	6.8	7	7.1	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				112	129	148	165	207	255	316
Water Temperature (°C)	39	0	>32	0	0		4.6	7.5	11.1	20.7	24.5	25.2	26.5
Other													
TSS (mg/L)	28	0	N/A				2.9	3.1	6.4	13.5	28.2	43.8	92
Turbidity (NTU)	28	0	>50	2	7.1		4.3	7.2	9.8	17.5	25	45.8	100
Nutrients (mg/L)													
NH3 as N	28	0	N/A				0.03	0.04	0.05	0.06	0.13	0.3	0.6
NO2 + NO3 as N	28	0	N/A				0.18	0.23	0.28	0.49	0.61	0.72	1.58
TKN as N	28	0	N/A				0.41	0.55	0.7	0.88	1.14	1.22	2.33
Total Phosphorus	28	0	N/A				0.06	0.08	0.11	0.14	0.18	0.27	0.43
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
28	155.5	8	28.6	81.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MIDDLE CRK AT NC 210 NR SMITHFIELD

Station #: J5010000

Hydrologic Unit Code: 03020201

Latitude: 35.50750

Longitude: -78.40139

Stream class: C NSW

Agency: LNBA

NC stream index: 27-43-15-(4)

Time period: 01/23/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6	6.5	6.8	7.5	9	10.7	13.3
	85	0	<5	0	0		6	6.5	6.8	7.5	9	10.7	13.3
pH (SU)	85	0	<6	0	0		6.6	6.7	6.9	7	7.1	7.3	8.1
	85	0	>9	0	0		6.6	6.7	6.9	7	7.1	7.3	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				100	123	132	159	184	225	328
Water Temperature (°C)	85	0	>32	0	0		3.7	7.1	10.7	21.5	24.9	27.2	28.7
Other													
TSS (mg/L)	60	11	N/A				1	2.9	3.1	5.5	11	22.9	84
Turbidity (NTU)	60	0	>50	4	6.7		3.4	5.4	7.5	11	18.5	37.6	260
Nutrients (mg/L)													
NH3 as N	60	5	N/A				0.01	0.02	0.04	0.06	0.1	0.12	0.54
NO2 + NO3 as N	60	0	N/A				0.06	0.2	0.28	0.38	0.48	0.61	0.89
TKN as N	60	0	N/A				0.29	0.45	0.59	0.73	0.95	1.15	2.89
Total Phosphorus	57	1	N/A				0.02	0.05	0.09	0.13	0.2	0.26	0.76
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	128.3	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BLACK CRK AT SR 1162 BLACK CREEK RD NR FOUR OAKS

Station #: J5170000

Hydrologic Unit Code: 03020201

Latitude: 35.46925

Longitude: -78.45681

Stream class: C NSW

Agency: LNBA

NC stream index: 27-45-(2)

Time period: 01/23/2009 to 12/04/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	6	7.1		1.3	4.3	5.4	6.2	8	9.4	12.6
	84	0	<5	14	16.7	96.1	1.3	4.3	5.4	6.2	8	9.4	12.6
pH (SU)	84	0	<6	2	2.4		5.3	6.2	6.5	6.6	6.8	7.1	7.7
	84	0	>9	0	0		5.3	6.2	6.5	6.6	6.8	7.1	7.7
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				62	76	88	107	177	209	295
Water Temperature (°C)	84	0	>32	0	0		3.5	6.9	10.5	20.9	24.7	26.6	31.1
Other													
TSS (mg/L)	59	11	N/A				1	2.9	3.7	5.3	8.4	12	64
Turbidity (NTU)	59	0	>50	0	0		2.9	5	7.3	9.9	13	17	36
Nutrients (mg/L)													
NH3 as N	59	5	N/A				0.01	0.02	0.04	0.06	0.13	0.26	0.42
NO2 + NO3 as N	59	16	N/A				0.01	0.01	0.02	0.05	0.08	0.14	0.22
TKN as N	59	0	N/A				0.29	0.57	0.8	1.11	1.39	1.7	2.46
Total Phosphorus	56	1	N/A				0.02	0.03	0.05	0.08	0.11	0.15	0.6
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	83.3	3	5.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 1201 RICHARDSON BRIDGE RD NR COX MILL

Station #: J5250000

Hydrologic Unit Code: 03020201

Latitude: 35.37410

Longitude: -78.19620

Stream class: WS-IV NSW CA

Agency: LNBA

NC stream index: 27-(49.75)

Time period: 01/30/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.3	6.6	7.2	9.7	10.9	11.9
	85	0	<5	0	0		5.9	6.3	6.6	7.2	9.7	10.9	11.9
pH (SU)	85	0	<6	0	0		6.3	6.8	6.9	7.1	7.2	7.3	7.6
	85	0	>9	0	0		6.3	6.8	6.9	7.1	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				66	110	127	154	195	242	312
Water Temperature (°C)	85	0	>32	1	1.2		2.1	7.8	12.1	21.9	25.8	28.3	33.1
Other													
TSS (mg/L)	60	3	N/A				2.9	4.7	13.2	26	38.5	140.6	625
Turbidity (NTU)	60	0	>50	9	15	85.8	3.1	12	14.2	24	37	64.5	380
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.01	0.02	0.05	0.07	0.09	0.14	0.22
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.19	0.32	0.41	0.53	0.62	0.98
TKN as N	60	2	N/A				0.2	0.49	0.57	0.78	0.93	1.12	1.82
Total Phosphorus	57	0	N/A				0.04	0.08	0.11	0.17	0.23	0.31	0.97
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	106.6	7	11.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HANNAH CRK AT SR 1158 ALLEN CROSSROADS RD NR BENSON

Station #: J5390000

Hydrologic Unit Code: 03020201

Latitude: 35.38677

Longitude: -78.51096

Stream class: C NSW

Agency: LNBA

NC stream index: 27-52-6

Time period: 01/23/2009 to 12/04/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	18	21.2	99.8	0.6	2.5	4.2	5.7	7.7	9.2	12.4
	85	0	<5	29	34.1	> 99.9	0.6	2.5	4.2	5.7	7.7	9.2	12.4
pH (SU)	85	0	<6	19	22.4	99.9	5.3	5.7	6.1	6.4	6.6	6.7	7.9
	85	0	>9	0	0		5.3	5.7	6.1	6.4	6.6	6.7	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				65	84	105	119	151	205	240
Water Temperature (°C)	85	0	>32	0	0		3.2	6.8	10.2	21	24	25.4	28.4
Other													
TSS (mg/L)	60	14	N/A				1	2.8	3.1	4.1	7	11	27
Turbidity (NTU)	60	0	>50	1	1.7		2.2	4.2	5.6	7.9	14	26.1	59
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.02	0.06	0.09	0.17	0.32	0.56
NO2 + NO3 as N	60	3	N/A				0.01	0.02	0.06	0.19	0.41	0.6	1.26
TKN as N	60	0	N/A				0.28	0.39	0.53	0.69	0.83	1.09	1.24
Total Phosphorus	57	7	N/A				0.02	0.02	0.03	0.05	0.07	0.12	0.54
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	107.2	13	21.7	57.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HANNAH CRK AT SR 1227 IVEY RD NR BENSON

Station #: J5390800

Hydrologic Unit Code: 03020201

Latitude: 35.40245

Longitude: -78.49520

Stream class: C NSW

Agency: LNBA

NC stream index: 27-52-6

Time period: 01/23/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	28	32.9	> 99.9	0.4	1.1	2.9	5.3	7	8.9	12.1
	85	0	<5	35	41.2	> 99.9	0.4	1.1	2.9	5.3	7	8.9	12.1
pH (SU)	85	0	<6	6	7.1		5.4	6	6.2	6.4	6.6	6.8	7.7
	85	0	>9	0	0		5.4	6	6.2	6.4	6.6	6.8	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				79	107	143	178	232	316	391
Water Temperature (°C)	85	0	>32	0	0		3.3	6.6	10.2	20.4	24.1	25.6	28
Other													
TSS (mg/L)	60	15	N/A				1.4	2.9	2.9	5.6	11	21.5	32
Turbidity (NTU)	60	0	>50	0	0		1.7	2.7	4.9	8.9	15	24.7	50
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.05	0.11	0.47	0.9	2.31
NO2 + NO3 as N	60	23	N/A				0.01	0.01	0.02	0.03	0.18	0.96	2.22
TKN as N	60	0	N/A				0.34	0.44	0.75	1.16	1.8	2.15	3.21
Total Phosphorus	57	0	N/A				0.05	0.08	0.15	0.27	0.63	1.23	2.02
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	80.7	11	18.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MILL CRK AT SR 1200 AT COX MILL

Station #: J5410000

Hydrologic Unit Code: 03020201

Latitude: 35.34195

Longitude: -78.21623

Stream class: C NSW

Agency: LNBA

NC stream index: 27-52-(1)

Time period: 06/20/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	77	0	<4	10	13	76.1	1.8	3.5	4.9	6.2	7.4	9.5	10.9
	77	0	<5	20	26	> 99.9	1.8	3.5	4.9	6.2	7.4	9.5	10.9
pH (SU)	77	0	<6	7	9.1		5.7	6.1	6.4	6.5	6.7	6.8	7.1
	77	0	>9	0	0		5.7	6.1	6.4	6.5	6.7	6.8	7.1
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				7	79	95	109	136	154	194
Water Temperature (°C)	77	0	>32	0	0		1.5	6.8	11.9	21	24.5	26.2	30.7
Other													
TSS (mg/L)	53	25	N/A				1	2.8	2.9	3.2	4.2	7.3	8.9
Turbidity (NTU)	53	0	>50	0	0		1.3	2.5	3.3	5	7.3	9	16
Nutrients (mg/L)													
NH3 as N	53	3	N/A				0.01	0.02	0.05	0.07	0.1	0.15	0.94
NO2 + NO3 as N	53	0	N/A				0.01	0.05	0.09	0.13	0.19	0.35	0.49
TKN as N	53	0	N/A				0.22	0.44	0.62	0.82	1.05	1.3	3.4
Total Phosphorus	50	6	N/A				0.02	0.02	0.03	0.05	0.07	0.08	0.15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	113.1	4	7.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FALLING CRK AT SR 1219 OLD GRANTHAM RD NR GRANTHAM

Station #: J5500000

Hydrologic Unit Code: 03020201

Latitude: 35.32239

Longitude: -78.12815

Stream class: WS-IV NSW

Agency: LNBA

NC stream index: 27-54-(3.5)

Time period: 08/17/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	75	0	<4	18	24	> 99.9	0.8	2.5	4.3	6.3	7.3	9.1	10.6
	75	0	<5	24	32	> 99.9	0.8	2.5	4.3	6.3	7.3	9.1	10.6
pH (SU)	75	0	<6	4	5.3		5.5	6	6.4	6.6	6.7	6.8	6.9
	75	0	>9	0	0		5.5	6	6.4	6.6	6.7	6.8	6.9
Spec. conductance (umhos/cm at 25°C)	75	0	N/A				77	105	115	127	155	171	219
Water Temperature (°C)	75	0	>32	0	0		1.4	7	11.7	20.8	24.1	25.7	28.8
Other													
TSS (mg/L)	53	27	N/A				1	2.8	2.9	3.1	4.1	5.3	58
Turbidity (NTU)	53	0	>50	0	0		1.7	2	3	5.1	7.2	9.1	16
Nutrients (mg/L)													
NH3 as N	53	2	N/A				0.01	0.02	0.03	0.06	0.1	0.22	0.47
NO2 + NO3 as N	53	2	>10	0	0		0.02	0.07	0.12	0.29	0.49	0.78	2.22
TKN as N	53	0	N/A				0.33	0.51	0.69	0.88	1.11	1.48	1.97
Total Phosphorus	50	5	N/A				0.02	0.02	0.05	0.1	0.12	0.14	0.26
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	114.9	8	15.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE RIV AT SR 2333 SMITHFIELD RD NR ZEBULON

Station #: J5620000

Hydrologic Unit Code: 03020201

Latitude: 35.85770

Longitude: -78.36650

Stream class: WS-II HQW NSW

Agency: LNBA

NC stream index: 27-57-(1)

Time period: 01/16/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	55	64.7	> 99.9	0.4	1.2	1.6	3	6.2	8.4	10.3
pH (SU)	85	0	<5	58	68.2	> 99.9	0.4	1.2	1.6	3	6.2	8.4	10.3
	85	0	<6	11	12.9	77.1	5.3	5.8	6.2	6.3	6.5	6.7	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.3	5.8	6.2	6.3	6.5	6.7	7.2
	85	1	N/A				50	59	64	74	91	105	163
Water Temperature (°C)	85	0	>32	0	0		1.2	7.1	11.6	19.4	24.2	26.1	30.9
Other													
TSS (mg/L)	58	17	N/A				1	2.9	3.5	5	9.6	17.4	29
Turbidity (NTU)	58	0	>50	0	0		1.4	3.9	5.3	7.1	14	34.4	50
Nutrients (mg/L)													
NH3 as N	58	9	N/A				0.01	0.02	0.03	0.05	0.08	0.14	0.33
NO2 + NO3 as N	58	26	>10	0	0		0.01	0.01	0.02	0.02	0.06	0.09	2.58
TKN as N	58	0	N/A				0.31	0.39	0.51	0.73	0.98	1.32	1.92
Total Phosphorus	54	3	N/A				0.02	0.03	0.05	0.08	0.13	0.16	0.78
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	69.5	5	8.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE RIV AT US 301 NR KENLY

Station #: J5690000

Hydrologic Unit Code: 03020201

Latitude: 35.58290

Longitude: -78.15930

Stream class: WS-V NSW

Agency: LNBA

NC stream index: 27-57-(8.5)

Time period: 01/16/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	1	1.2		3	5.6	6.4	7.3	9.6	10.7	12.5
	84	0	<5	2	2.4		3	5.6	6.4	7.3	9.6	10.7	12.5
pH (SU)	84	0	<6	0	0		6.2	6.6	6.8	6.9	7.1	7.2	7.8
	84	0	>9	0	0		6.2	6.6	6.8	6.9	7.1	7.2	7.8
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				53	69	86	109	137	171	203
Water Temperature (°C)	84	0	>32	0	0		1.9	7.4	12.4	21.6	25.1	27.3	30.9
Other													
TSS (mg/L)	60	11	N/A				1.7	2.9	3.2	4.9	7.5	12	45
Turbidity (NTU)	60	0	>50	0	0		3.2	5	6.5	9.7	13	18.9	45
Nutrients (mg/L)													
NH3 as N	60	5	N/A				0.01	0.02	0.03	0.06	0.1	0.16	0.26
NO2 + NO3 as N	60	3	>10	0	0		0.02	0.04	0.09	0.17	0.25	0.3	0.84
TKN as N	60	0	N/A				0.24	0.45	0.6	0.72	0.98	1.42	1.74
Total Phosphorus	57	1	N/A				0.02	0.04	0.06	0.08	0.1	0.14	0.22
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	95.5	7	11.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE RIV AT SR 2339 BAGLEY RD NR LOWELL MILL

Station #: J5750000

Hydrologic Unit Code: 03020201

Latitude: 35.56128

Longitude: -78.15935

Stream class: WS-V NSW

Agency: LNBA

NC stream index: 27-57-(8.5)

Time period: 01/16/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	81	0	<4	0	0		4.8	5.7	6.5	7.4	9.6	11	12.5
	81	0	<5	1	1.2		4.8	5.7	6.5	7.4	9.6	11	12.5
pH (SU)	81	0	<6	0	0		6.2	6.6	6.8	7	7.1	7.2	7.4
	81	0	>9	0	0		6.2	6.6	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	81	0	N/A				54	74	88	103	118	137	232
Water Temperature (°C)	81	0	>32	0	0		2	7.1	12	20.7	24.8	26.7	31.9
Other													
TSS (mg/L)	58	12	N/A				2	2.9	3.1	4.7	8.6	19.1	37
Turbidity (NTU)	58	0	>50	0	0		3.2	4.5	6	9.2	14	22	45
Nutrients (mg/L)													
NH3 as N	58	6	N/A				0.01	0.02	0.03	0.06	0.09	0.14	0.51
NO2 + NO3 as N	58	2	>10	0	0		0.02	0.07	0.15	0.2	0.27	0.33	0.48
TKN as N	58	1	N/A				0.2	0.45	0.58	0.75	0.96	1.3	2.9
Total Phosphorus	55	2	N/A				0.02	0.04	0.05	0.07	0.11	0.13	0.5

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	114	6	10.3	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BUFFALO CRK AT SR 2358 AT WENDELL

Station #: J5790000

Hydrologic Unit Code: 03020201

Latitude: 35.76972

Longitude: -78.37693

Stream class: C NSW

Agency: LNBA

NC stream index: 27-57-16-(3)

Time period: 09/12/2011 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	39	0	<4	2	5.1		3.2	4.4	6.2	6.9	8.1	9.5	10.3
pH (SU)	39	0	<5	4	10.3	44.3	3.2	4.4	6.2	6.9	8.1	9.5	10.3
	39	0	<6	1	2.6		5.7	6.4	6.6	6.8	7	7	7.2
Spec. conductance (umhos/cm at 25°C)	39	0	>9	0	0		5.7	6.4	6.6	6.8	7	7	7.2
	39	0	N/A				52	58	78	91	120	214	226
Water Temperature (°C)	39	0	>32	0	0		4.2	8.2	10.1	19.1	24.3	27.1	28.5
Other													
TSS (mg/L)	28	5	N/A				2.8	2.9	4.2	4.9	8.9	14.1	85
Turbidity (NTU)	28	0	>50	0	0		4.1	5.4	6	7.6	10	13.1	22
Nutrients (mg/L)													
NH3 as N	28	0	N/A				0.03	0.03	0.04	0.06	0.09	0.12	0.16
NO2 + NO3 as N	28	3	N/A				0.02	0.02	0.05	0.06	0.12	0.2	0.42
TKN as N	28	0	N/A				0.36	0.41	0.52	0.69	0.88	1	1.38
Total Phosphorus	28	3	N/A				0.02	0.02	0.04	0.06	0.1	0.18	0.23
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
28	166.7	6	21.4	50									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LITTLE RIV AT SR 2320 NR PRINCETON

Station #: J5850000

Hydrologic Unit Code: 03020201

Latitude: 35.51252

Longitude: -78.15883

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 27-57-(8.5)

Time period: 01/14/2009 to 12/16/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4.5	5.5	6.5	8.8	10.8	12.6	13.9
	32	0	<5	1	3.1		4.5	5.5	6.5	8.8	10.8	12.6	13.9
pH (SU)	32	0	<6	0	0		6.3	6.5	6.8	7	7.2	7.4	7.8
	32	0	>9	0	0		6.3	6.5	6.8	7	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				65	66	74	80	86	120	132
Water Temperature (°C)	32	0	>32	0	0		1.4	5.8	9.1	15.5	23.3	27.9	30.4
Other													
Hardness (mg/L)	14	0	>100	0	0		16	16	20	22	24	26	26
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.2	10.8	15
Turbidity (NTU)	32	0	>50	0	0		2.1	2.7	3.2	6.3	11	15.1	19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
32	74.3		3	9.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE RIV AT SR 1234 CAPPS BRIDGE RD NR CROSSROADS

Station #: J5900000

Hydrologic Unit Code: 03020201

Latitude: 35.46620

Longitude: -78.09420

Stream class: WS-IV NSW

Agency: LNBA

NC stream index: 27-57-(20.2)

Time period: 01/16/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4	5.5	6.2	7.2	9.2	10.4	13.2
	85	0	<5	6	7.1		4	5.5	6.2	7.2	9.2	10.4	13.2
pH (SU)	85	0	<6	1	1.2		5.9	6.5	6.7	6.8	7	7.3	8.3
	85	0	>9	0	0		5.9	6.5	6.7	6.8	7	7.3	8.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				61	80	90	103	130	175	304
Water Temperature (°C)	85	0	>32	1	1.2		1.7	7.4	12.6	21.7	25.2	27.6	32.1
Other													
TSS (mg/L)	60	5	N/A				1.7	2.7	4	5.7	9.8	15.9	82
Turbidity (NTU)	60	0	>50	1	1.7		2.8	5	6.5	9.3	13.8	24.5	85
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.02	0.04	0.06	0.09	0.14	0.28
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.17	0.28	0.34	0.46	0.55	0.74
TKN as N	60	2	N/A				0.2	0.5	0.58	0.75	0.98	1.28	1.83
Total Phosphorus	57	1	N/A				0.02	0.04	0.06	0.08	0.1	0.13	0.19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	110.2	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE RIV AT NC 581 AT ASYLUM

Station #: J5930000

Hydrologic Unit Code: 03020201

Latitude: 35.39300

Longitude: -78.02580

Stream class: C NSW

Agency: LNBA

NC stream index: 27-57-(22)

Time period: 01/16/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		5.2	5.9	6.4	7.1	9.1	10.4	12.6
	84	0	<5	0	0		5.2	5.9	6.4	7.1	9.1	10.4	12.6
pH (SU)	85	0	<6	1	1.2		5.5	6.5	6.7	6.8	7	7.1	7.3
	85	0	>9	0	0		5.5	6.5	6.7	6.8	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				62	85	113	131	156	184	214
Water Temperature (°C)	85	0	>32	0	0		2.2	7.7	12.7	22.3	25.8	27.3	31.1
Other													
TSS (mg/L)	60	11	N/A				1.4	2.8	3.1	4.8	8.4	10.9	43
Turbidity (NTU)	60	0	>50	1	1.7		3.1	3.8	5.8	8.4	11	18.9	60
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.02	0.04	0.06	0.1	0.18	0.29
NO2 + NO3 as N	60	0	N/A				0.1	0.2	0.3	0.4	0.49	0.58	0.83
TKN as N	60	1	N/A				0.2	0.39	0.59	0.72	0.94	1.33	2.49
Total Phosphorus	57	1	N/A				0.02	0.04	0.05	0.07	0.09	0.13	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	114.6	5	8.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 1915 NR GOLDSBORO

Station #: J5970000

Hydrologic Unit Code: 03020202

Latitude: 35.33712

Longitude: -77.99734

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 27-(56)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4.4	5.4	6.2	8	10.3	12.1	13.6
	32	0	<5	1	3.1		4.4	5.4	6.2	8	10.3	12.1	13.6
pH (SU)	32	0	<6	0	0		6.3	6.6	6.8	7	7.2	7.5	7.6
	32	0	>9	0	0		6.3	6.6	6.8	7	7.2	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				65	94	110	144	194	240	269
Water Temperature (°C)	32	0	>32	0	0		3	7.5	10.1	16.8	25.6	28.5	31.2
Other													
Chlorophyll a (ug/L)	32	6	>40	0	0		1	1	1	3	7	16	21
Hardness (mg/L)	14	0	N/A				25	26	29	32	36	39	39
TSS (mg/L)	20	3	N/A				6.2	6.2	8	13.5	28	32	39
Turbidity (NTU)	32	0	>50	2	6.2		3.9	5.3	11	16.5	21	34.7	120
Nutrients (mg/L)													
NH3 as N	32	6	N/A				0.02	0.02	0.02	0.04	0.05	0.07	0.13
NO2 + NO3 as N	32	0	N/A				0.2	0.24	0.4	0.45	0.54	0.62	0.68
TKN as N	32	0	N/A				0.33	0.43	0.51	0.62	0.72	0.81	0.97
Total Phosphorus	32	0	N/A				0.08	0.1	0.12	0.14	0.17	0.21	0.33
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	79.4	4	12.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: WALNUT CRK AT SR 1730 SAINT JOHNS CHURCH RD NR WALNUT CREEK

Station #: J6010950

Hydrologic Unit Code: 03020202

Latitude: 35.28170

Longitude: -77.86860

Stream class: C NSW

Agency: LNBA

NC stream index: 27-68

Time period: 01/16/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.2	5.2	6.2	6.8	8.2	10.2	12.1
	84	0	<5	2	2.4		4.2	5.2	6.2	6.8	8.2	10.2	12.1
pH (SU)	85	0	<6	4	4.7		5.4	6.2	6.5	6.7	6.9	7.1	7.3
	85	0	>9	0	0		5.4	6.2	6.5	6.7	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				54	82	91	120	137	150	178
Water Temperature (°C)	85	0	>32	0	0		2.1	8.2	14	21.9	25.2	26.7	29.4
Other													
TSS (mg/L)	60	29	N/A				1	1.3	2.6	2.9	3.2	5.9	22
Turbidity (NTU)	60	4	>50	0	0		1	1.3	2.2	3	4.7	6.5	17
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.02	0.03	0.05	0.08	0.13	0.17	0.32
NO2 + NO3 as N	60	0	N/A				0.13	0.36	0.48	0.8	1.07	1.96	2.88
TKN as N	60	3	N/A				0.2	0.25	0.33	0.52	0.76	0.93	1.91
Total Phosphorus	57	11	N/A				0.02	0.02	0.02	0.04	0.06	0.08	0.21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	46.3	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 1731 NR SEVEN SPRINGS

Station #: J6024000

Hydrologic Unit Code: 03020202

Latitude: 35.22900

Longitude: -77.84600

Stream class: C NSW

Agency: LNBA

NC stream index: 27-(56)

Time period: 01/16/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		5.5	6.2	6.5	7.4	8.9	10.3	12.3
	84	0	<5	0	0		5.5	6.2	6.5	7.4	8.9	10.3	12.3
pH (SU)	85	0	<6	1	1.2		5.8	6.7	6.9	7	7.2	7.3	7.6
	85	0	>9	0	0		5.8	6.7	6.9	7	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				79	107	124	138	158	198	283
Water Temperature (°C)	85	0	>32	1	1.2		2.9	8.6	13.9	22.9	26.5	29.5	32.8
Other													
TSS (mg/L)	60	4	N/A				1.7	2.9	5.2	13	24.2	33.8	80
Turbidity (NTU)	60	0	>50	3	5		2	4.6	7.2	15.5	24.8	34.8	230
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.05	0.08	0.13	0.16	0.33
NO2 + NO3 as N	60	0	N/A				0.12	0.32	0.38	0.47	0.57	0.69	1.19
TKN as N	60	0	N/A				0.3	0.45	0.52	0.69	0.88	1.12	1.75
Total Phosphorus	57	1	N/A				0.02	0.05	0.08	0.12	0.15	0.18	0.5
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	66.4	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BEAR CRK AT SR 1311 BEAR CREEK RD NR KINSTON

Station #: J6044500

Hydrologic Unit Code: 03020202

Latitude: 35.24890

Longitude: -77.78430

Stream class: WS IV Sw NSW

Agency: LNBA

NC stream index: 27-72-(5)

Time period: 01/16/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	N/A				4.9	6.5	6.7	7.8	9.1	10.6	12.5
pH (SU)	85	0	<4.3	0	0		5.8	6.3	6.7	6.9	7.1	7.2	7.4
	85	0	>9	0	0		5.8	6.3	6.7	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				61	98	106	114	124	144	254
Water Temperature (°C)	85	0	>32	0	0		2.4	8	13.7	20.8	23.7	25.5	28.6
Other													
TSS (mg/L)	60	7	N/A				1.7	2.9	3.5	5.5	9.1	15.8	72
Turbidity (NTU)	60	0	>50	0	0		1.3	3.4	4.7	6.7	12.8	25.6	45
Nutrients (mg/L)													
NH3 as N	60	0	N/A				0.02	0.04	0.07	0.1	0.18	0.25	4.49
NO2 + NO3 as N	60	0	>10	0	0		0.51	1.64	1.92	2.24	2.57	3.02	3.7
TKN as N	60	1	N/A				0.2	0.33	0.47	0.67	1.03	1.21	6.48
Total Phosphorus	57	2	N/A				0.02	0.05	0.06	0.09	0.12	0.2	0.63
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	105.4	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MOSLEY CRK AT SR 1327 WILLEY MEASLEY RD NR LAGRANGE

Station #: J6055000

Hydrologic Unit Code: 03020202

Latitude: 35.31194

Longitude: -77.73139

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-77-2

Time period: 01/16/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	N/A				5	6	6.5	7.3	8.3	10.2	12
pH (SU)	85	0	<4.3	0	0		6	6.4	6.6	6.8	6.9	7	7.2
	85	0	>9	0	0		6	6.4	6.6	6.8	6.9	7	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				69	104	113	126	148	169	217
Water Temperature (°C)	85	0	>32	0	0		2.6	8	13.6	20.8	24.3	25.5	28.9
Other													
TSS (mg/L)	60	13	N/A				1.7	2.8	2.9	4.5	8	15.9	59
Turbidity (NTU)	60	0	>50	0	0		2.3	3.2	4.1	6	9.2	14	24
Nutrients (mg/L)													
NH3 as N	60	0	N/A				0.02	0.04	0.06	0.09	0.13	0.2	0.54
NO2 + NO3 as N	60	0	N/A				0.27	1.08	1.41	1.92	2.45	2.84	3.32
TKN as N	60	2	N/A				0.2	0.35	0.51	0.73	0.94	1.35	2.38
Total Phosphorus	57	2	N/A				0.02	0.04	0.06	0.1	0.15	0.19	0.33
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	88.1	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT NC 11 AT KINSTON

Station #: J6150000

Hydrologic Unit Code: 03020202

Latitude: 35.25879

Longitude: -77.58353

Stream class: C NSW

Agency: LNBA

NC stream index: 27-(75.7)

Time period: 01/16/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.2	6.3	6.5	7.3	9.2	10.3	12.3
	83	0	<5	0	0		5.2	6.3	6.5	7.3	9.2	10.3	12.3
pH (SU)	85	0	<6	0	0		6	6.8	6.9	7	7.2	7.3	8.5
	85	0	>9	0	0		6	6.8	6.9	7	7.2	7.3	8.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				80	112	131	150	162	194	252
Water Temperature (°C)	85	0	>32	1	1.2		3.2	8.6	14.3	22.9	26.8	29.3	33.3
Other													
TSS (mg/L)	60	1	N/A				3.8	5.2	6.9	13	20	32.4	229
Turbidity (NTU)	60	0	>50	0	0		2.8	7	9.1	14	20.8	26.9	39
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.02	0.04	0.07	0.1	0.13	0.47
NO2 + NO3 as N	60	0	N/A				0.04	0.3	0.44	0.53	0.66	0.8	0.85
TKN as N	60	0	N/A				0.27	0.37	0.56	0.68	0.81	1.19	2.03
Total Phosphorus	57	0	N/A				0.02	0.06	0.08	0.11	0.13	0.16	0.27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	57.3	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NEUSE RIV AT NC 11 AT KINSTON

Station #: J6150000

Hydrologic Unit Code: 03020202

Latitude: 35.25879

Longitude: -77.58353

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 27-(75.7)

Time period: 01/05/2009 to 12/23/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	250	0	<4	4	1.6		3.1	6.3	6.8	8	10	11.2	13.3
	250	0	<5	6	2.4		3.1	6.3	6.8	8	10	11.2	13.3
pH (SU)	252	0	<6	5	2		4.9	6.3	6.6	6.8	7.1	7.3	8.4
	252	0	>9	0	0		4.9	6.3	6.6	6.8	7.1	7.3	8.4
Salinity (ppt)	252	0	N/A				0.02	0.03	0.05	0.06	0.08	0.09	0.11
Spec. conductance (umhos/cm at 25°C)	253	0	N/A				70	94	116	146	173	199	241
Water Temperature (°C)	252	0	>32	1	0.4		2.7	7.9	11.7	19.1	25.6	29	32.6
Other													
Chlorophyll a (ug/L)	61	5	>40	1	1.6		1	1	2	3	6	15	45
Hardness (mg/L)	14	0	N/A				20	23	30	33	35	38	40
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	8.7	18.5	29.4	33
Turbidity (NTU)	61	0	>50	1	1.6		3.3	4.9	7.5	14	19	25.6	80
Nutrients (mg/L)													
NH3 as N	252	96	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.21
NO2 + NO3 as N	252	1	N/A				0.02	0.33	0.43	0.56	0.65	0.77	1
TKN as N	251	0	N/A				0.29	0.42	0.49	0.57	0.66	0.75	1
Total Phosphorus	251	0	N/A				0.05	0.08	0.1	0.13	0.15	0.18	0.4
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	38.4	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT NC 55 NR GRAINGERS

Station #: J6250000

Hydrologic Unit Code: 03020202

Latitude: 35.29570

Longitude: -77.49620

Stream class: C NSW

Agency: LNBA

NC stream index: 27-(75.7)

Time period: 02/09/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	0	0		5.5	6.4	6.6	7.2	9.2	10.6	12.4
	83	0	<5	0	0		5.5	6.4	6.6	7.2	9.2	10.6	12.4
pH (SU)	84	0	<6	0	0		6	6.9	7	7.1	7.2	7.5	7.8
	84	0	>9	0	0		6	6.9	7	7.1	7.2	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				74	113	122	135	155	194	248
Water Temperature (°C)	84	0	>32	1	1.2		2.6	8.2	13.2	23.1	26.4	28.8	32.4
Other													
TSS (mg/L)	59	2	N/A				2.8	3.7	5.9	12	18	20	61
Turbidity (NTU)	59	0	>50	0	0		4	6.8	8.9	16	18	28	46
Nutrients (mg/L)													
NH3 as N	59	5	N/A				0.01	0.02	0.05	0.06	0.1	0.16	0.62
NO2 + NO3 as N	59	0	N/A				0.09	0.28	0.42	0.56	0.65	0.75	0.83
TKN as N	59	0	N/A				0.33	0.47	0.58	0.74	0.89	1.08	1.69
Total Phosphorus	55	1	N/A				0.02	0.07	0.09	0.11	0.13	0.16	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	61.7	5	8.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE CRK AT NC 97 AT ZEBULON

Station #: J6410000

Hydrologic Unit Code: 03020203

Latitude: 35.82786

Longitude: -78.30247

Stream class: C NSW

Agency: LNBA

NC stream index: 27-86-2-4

Time period: 02/06/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	81	0	<4	1	1.2		1.2	4.8	6.2	6.9	8.4	9.9	11.6
	81	0	<5	10	12.3	70.9	1.2	4.8	6.2	6.9	8.4	9.9	11.6
pH (SU)	81	0	<6	1	1.2		5.8	6.3	6.5	6.8	6.9	7.1	7.2
	81	0	>9	0	0		5.8	6.3	6.5	6.8	6.9	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				64	81	97	120	148	174	206
Water Temperature (°C)	81	0	>32	0	0		1.8	7.5	12.6	19.5	23.5	25.1	25.9
Other													
TSS (mg/L)	47	6	N/A				1.5	2.9	3.7	6.5	9.7	18	49
Turbidity (NTU)	47	0	>50	0	0		5	6.2	7.6	10	17	27.2	45
Nutrients (mg/L)													
NH3 as N	47	1	N/A				0.01	0.03	0.04	0.06	0.09	0.15	0.41
NO2 + NO3 as N	47	2	N/A				0.01	0.08	0.21	0.31	0.44	0.65	1.05
TKN as N	47	1	N/A				0.2	0.3	0.49	0.67	0.81	1.08	1.29
Total Phosphorus	46	1	N/A				0.02	0.04	0.06	0.08	0.11	0.17	0.61
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
47	225.7	12	25.5	78.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE CRK AT NC 39 AT ZEBULON

Station #: J6450000

Hydrologic Unit Code: 03020203

Latitude: 35.81250

Longitude: -78.26810

Stream class: C NSW

Agency: LNBA

NC stream index: 27-86-2-4

Time period: 01/22/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4.5	5.7	6.4	6.9	8.6	10.2	12.1
	85	0	<5	2	2.4		4.5	5.7	6.4	6.9	8.6	10.2	12.1
pH (SU)	85	0	<6	0	0		6.4	6.7	6.8	6.9	7	7.2	7.4
	85	0	>9	0	0		6.4	6.7	6.8	6.9	7	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				93	115	132	174	247	427	543
Water Temperature (°C)	85	0	>32	0	0		1.7	7.2	11.7	20	24.3	26.3	28.4
Other													
TSS (mg/L)	60	9	N/A				1.9	2.9	3.2	5.1	9.3	21.9	40
Turbidity (NTU)	60	0	>50	2	3.3		3.4	5	7.1	9.9	16	37.6	65
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.06	0.08	0.14	0.21	0.72
NO2 + NO3 as N	60	2	N/A				0.01	0.34	0.5	0.69	1.01	1.45	1.97
TKN as N	60	0	N/A				0.31	0.45	0.57	0.69	0.92	1.27	1.59
Total Phosphorus	56	1	N/A				0.02	0.05	0.07	0.1	0.18	0.28	11.76
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	125.8	17	28.3	92.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MOCCASIN CRK AT SR 1131 ANTIOC CHURCH RD NR CONNER

Station #: J6500000

Hydrologic Unit Code: 03020203

Latitude: 35.73010

Longitude: -78.18950

Stream class: C NSW

Agency: LNBA

NC stream index: 27-86-2

Time period: 01/22/2009 to 12/19/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	6	7.1		2.7	4.1	5.6	6.6	8.7	10	11.8
	85	0	<5	17	20	99.6	2.7	4.1	5.6	6.6	8.7	10	11.8
pH (SU)	85	0	<6	0	0		6.3	6.5	6.7	6.8	6.9	7.1	7.4
	85	0	>9	0	0		6.3	6.5	6.7	6.8	6.9	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	87	97	115	132	144	217
Water Temperature (°C)	85	0	>32	0	0		1.4	6.5	11.2	19.7	24.3	25.4	29.5
Other													
TSS (mg/L)	60	18	N/A				1.5	2.8	2.9	3.4	7.1	15.8	50
Turbidity (NTU)	60	0	>50	2	3.3		3	4.5	6.1	8.1	12	28.8	70
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.01	0.02	0.04	0.05	0.09	0.14	0.25
NO2 + NO3 as N	60	4	N/A				0.01	0.02	0.06	0.12	0.19	0.25	0.33
TKN as N	60	1	N/A				0.2	0.47	0.55	0.73	1.06	1.42	1.8
Total Phosphorus	56	4	N/A				0.02	0.04	0.06	0.07	0.1	0.15	0.63
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	128.8	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TURKEY CRK AT SR 1101 CLAUDE LEWIS RD NR MIDDLESEX

Station #: J6680000

Hydrologic Unit Code: 03020203

Latitude: 35.75190

Longitude: -78.15970

Stream class: C NSW

Agency: LNBA

NC stream index: 27-86-3-(1)

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	15	17.6	97.9	1.9	3.1	5.2	6.2	8.4	9.9	11.7
	85	0	<5	20	23.5	>99.9	1.9	3.1	5.2	6.2	8.4	9.9	11.7
pH (SU)	85	0	<6	0	0		6.1	6.4	6.6	6.7	6.7	6.9	7.2
	85	0	>9	0	0		6.1	6.4	6.6	6.7	6.7	6.9	7.2
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				53	65	80	108	142	162	240
Water Temperature (°C)	85	0	>32	0	0		1.7	6.1	11.3	19.8	24.7	26.4	29.8
Other													
TSS (mg/L)	60	8	N/A				2.6	2.9	3.4	5	7	13.9	37
Turbidity (NTU)	60	0	>50	1	1.7		3.6	6.5	7.6	9.7	15.8	28.4	65
Nutrients (mg/L)													
NH3 as N	60	5	N/A				0.01	0.02	0.04	0.07	0.1	0.16	0.85
NO2 + NO3 as N	60	9	N/A				0.01	0.01	0.02	0.07	0.14	0.19	0.3
TKN as N	60	0	N/A				0.38	0.49	0.59	0.81	1.1	1.31	1.49
Total Phosphorus	56	3	N/A				0.02	0.03	0.05	0.07	0.1	0.16	0.66
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	95.9	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CONTENTNEA CRK AT NC 581 NR LUCAMA

Station #: J6740000

Hydrologic Unit Code: 03020203

Latitude: 35.69142

Longitude: -78.10928

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 27-86-(1)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4.2	4.9	6.7	8.8	11.6	12.7	14.1
	32	0	<5	3	9.4		4.2	4.9	6.7	8.8	11.6	12.7	14.1
pH (SU)	32	0	<6	0	0		6.3	6.5	6.8	7	7.1	7.5	7.6
	32	0	>9	0	0		6.3	6.5	6.8	7	7.1	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				49	54	61	70	74	81	86
Water Temperature (°C)	32	0	>32	0	0		2.9	7.5	9.1	18.1	25.9	29.1	31.5
Other													
Hardness (mg/L)	14	0	>100	0	0		14	14	16	18	19	21	22
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	8.2	12.9	13
Turbidity (NTU)	32	0	>50	0	0		1.8	2.5	4.2	6	8.6	11	15
Nutrients (mg/L)													
NH3 as N	32	10	N/A				0.02	0.02	0.02	0.05	0.09	0.12	0.24
NO2 + NO3 as N	32	9	>10	0	0		0.02	0.02	0.02	0.06	0.14	0.18	0.26
TKN as N	32	0	N/A				0.54	0.56	0.62	0.68	0.75	0.89	0.99
Total Phosphorus	32	0	N/A				0.02	0.02	0.03	0.04	0.06	0.07	0.09
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
32	26.2	1	3.1										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CONTENTNEA CRK AT US 301 WARD BLVD NR DIXIE

Station #: J6764000

Hydrologic Unit Code: 03020203

Latitude: 35.68790

Longitude: -77.94770

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-86-(7)

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	N/A				3.8	6.4	6.7	7.6	9.3	10.7	12.7
pH (SU)	84	0	<4.3	0	0		6.3	6.7	6.9	7	7.1	7.3	7.6
	84	0	>9	0	0		6.3	6.7	6.9	7	7.1	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				60	71	83	109	122	128	157
Water Temperature (°C)	84	0	>32	1	1.2		2.3	7.7	12	21.4	26.6	28.5	32.9
Other													
TSS (mg/L)	59	9	N/A				1	3.5	4.1	5.2	7	9	28
Turbidity (NTU)	59	0	>50	0	0		4.2	5	6	7.4	11	20	38
Nutrients (mg/L)													
NH3 as N	59	4	N/A				0.01	0.02	0.04	0.05	0.08	0.12	0.23
NO2 + NO3 as N	59	12	N/A				0.01	0.01	0.02	0.09	0.2	0.34	0.61
TKN as N	59	0	N/A				0.41	0.5	0.65	0.83	1.02	1.24	1.48
Total Phosphorus	55	4	N/A				0.02	0.03	0.04	0.06	0.08	0.13	0.83
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	43.2	5	8.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CONTENTNEA CRK AT SR 1622 EVANSDALE RD NR WILSON
Station #: J6890000 **Hydrologic Unit Code:** 03020203
Latitude: 35.64290 **Longitude:** -77.89020 **Stream class:** C Sw NSW
Agency: LNBA **NC stream index:** 27-86-(7)

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				4.3	5.4	6.4	7.2	8.8	10.3	12.1
pH (SU)	85	0	<4.3	0	0		6.5	6.6	6.8	6.9	7.1	7.2	7.6
	85	0	>9	0	0		6.5	6.6	6.8	6.9	7.1	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				89	106	126	140	162	243	536
Water Temperature (°C)	85	0	>32	0	0		2.4	7.3	11.4	21.3	25.9	27.7	30.9
Other													
TSS (mg/L)	60	6	N/A				2.8	3	4	6.9	11	18.9	39
Turbidity (NTU)	60	0	>50	0	0		3.2	5.4	6.8	10.5	16	27.9	50
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.05	0.06	0.09	0.14	0.18	0.58
NO2 + NO3 as N	60	0	N/A				0.11	0.18	0.3	0.4	0.49	0.75	1.59
TKN as N	60	1	N/A				0.2	0.54	0.71	0.86	1.05	1.35	1.8
Total Phosphorus	56	3	N/A				0.02	0.04	0.08	0.12	0.27	0.5	0.94
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	118.7	14	23.3	69.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CONTENTNEA CRK AT NC 58 NR STANTONSBURG

Station #: J7210000

Hydrologic Unit Code: 03020203

Latitude: 35.58610

Longitude: -77.81110

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-86-(7)

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				3.6	5.5	6.5	7.4	9.3	10.4	12.3
pH (SU)	85	0	<4.3	0	0		6.3	6.7	6.9	7	7.1	7.3	8.2
	85	0	>9	0	0		6.3	6.7	6.9	7	7.1	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				86	107	120	132	150	206	373
Water Temperature (°C)	85	0	>32	0	0		2.7	7.7	11.8	21.5	26.2	27.9	32
Other													
TSS (mg/L)	60	12	N/A				1.3	2.5	3.1	4.4	7.3	11.9	25
Turbidity (NTU)	60	0	>50	0	0		2.6	4.3	5.6	9	13	19.7	39
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.01	0.03	0.05	0.09	0.11	0.15	0.83
NO2 + NO3 as N	60	0	N/A				0.04	0.17	0.21	0.33	0.43	0.55	0.83
TKN as N	60	0	N/A				0.31	0.56	0.7	0.88	1.07	1.37	2.33
Total Phosphorus	56	3	N/A				0.02	0.06	0.08	0.13	0.2	0.35	0.74
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	104.8	6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TOISNOT SWAMP AT SR 1539 SAND PIT RD NR STANTONSBURG

Station #: J7240000

Hydrologic Unit Code: 03020203

Latitude: 35.59760

Longitude: -77.79470

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-86-11-(5)

Time period: 01/22/2009 to 09/13/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	81	0	N/A				1.8	4.6	5.5	6.4	8.1	11.4
pH (SU)	81	0	<4.3	0	0		5.9	6.4	6.5	6.7	6.8	7.3
	81	0	>9	0	0		5.9	6.4	6.5	6.7	6.8	7.3
Spec. conductance (umhos/cm at 25°C)	81	0	N/A				60	82	94	109	130	178
Water Temperature (°C)	81	0	>32	0	0		1.9	7.2	12.7	20.3	24.4	28.7
Other												
TSS (mg/L)	56	14	N/A				1.2	2.9	2.9	4.2	7.1	52
Turbidity (NTU)	56	0	>50	0	0		3.3	4.9	7.2	9.7	17.5	45
Nutrients (mg/L)												
NH3 as N	56	2	N/A				0.01	0.02	0.05	0.08	0.11	0.39
NO2 + NO3 as N	56	3	N/A				0.01	0.03	0.11	0.18	0.26	0.84
TKN as N	56	0	N/A				0.22	0.51	0.71	0.88	1.14	6.91
Total Phosphorus	52	1	N/A				0.02	0.04	0.07	0.11	0.15	0.56
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
56	109.1	9	16.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NAHUNTA SWAMP AT NC 58 NR CONTENTNEA

Station #: J7325000

Hydrologic Unit Code: 03020203

Latitude: 35.50810

Longitude: -77.74550

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-86-14

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				5.3	6.3	6.7	7.5	8.8	10.6	11.9
pH (SU)	85	0	<4.3	0	0		6.2	6.6	6.8	7	7.2	7.3	7.4
	85	0	>9	0	0		6.2	6.6	6.8	7	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				83	102	108	116	124	135	154
Water Temperature (°C)	85	0	>32	0	0		3	7.9	12.4	20.5	24.9	26.3	27.7
Other													
TSS (mg/L)	60	12	N/A				2.7	2.9	3.1	5.9	12	15.9	26
Turbidity (NTU)	60	0	>50	0	0		3.3	4.5	6.2	8.8	14	21.9	36
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.04	0.06	0.09	0.14	0.16	0.47
NO2 + NO3 as N	60	0	N/A				0.19	0.24	0.37	0.51	0.7	1.03	2.29
TKN as N	60	0	N/A				0.47	0.57	0.64	0.81	1.08	1.41	2.64
Total Phosphorus	56	2	N/A				0.02	0.05	0.08	0.11	0.2	0.3	0.79
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	92.4	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CONTENTNEA CRK AT US 13 AT SNOW HILL

Station #: J7330000

Hydrologic Unit Code: 03020203

Latitude: 35.45850

Longitude: -77.67530

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-86-(7)

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	85	0	N/A				3.8	5.7	6.4	7.2	8.8	11.8
pH (SU)	85	0	<4.3	0	0		6.2	6.6	6.8	7	7.1	7.3
	85	0	>9	0	0		6.2	6.6	6.8	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				89	108	121	132	144	179
Water Temperature (°C)	85	0	>32	0	0		2.8	8.3	12.7	21.6	26.2	31.3
Other												
TSS (mg/L)	60	13	N/A				1.7	2.9	3.1	4.9	6.5	16
Turbidity (NTU)	60	0	>50	0	0		2.9	4.5	5.8	8.2	12	39
Nutrients (mg/L)												
NH3 as N	60	3	N/A				0.02	0.02	0.05	0.07	0.1	0.27
NO2 + NO3 as N	60	1	N/A				0.02	0.27	0.49	0.56	0.7	1.37
TKN as N	60	0	N/A				0.21	0.52	0.59	0.75	1.01	3.46
Total Phosphorus	56	2	N/A				0.02	0.05	0.08	0.11	0.17	0.56
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	72.3	2	3.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CONTENTNEA CRK AT NC 123 AT HOOKERTON

Station #: J7450000

Hydrologic Unit Code: 03020203

Latitude: 35.42864

Longitude: -77.58265

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-86-(7)

Time period: 01/05/2009 to 12/23/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	250	0	N/A				0.6	5.5	6.1	7.3	9.6	10.7	12.8
pH (SU)	252	0	<4.3	0	0		4.9	5.8	6.2	6.4	6.6	6.9	7.9
	252	0	>9	0	0		4.9	5.8	6.2	6.4	6.6	6.9	7.9
Salinity (ppt)	252	0	N/A				0.02	0.03	0.04	0.05	0.05	0.06	0.11
Spec. conductance (umhos/cm at 25°C)	253	0	N/A				69	91	104	117	131	148	229
Water Temperature (°C)	252	0	>32	1	0.4		2	7.5	11.2	18.4	24.5	27.4	32.1
Other													
Chlorophyll a (ug/L)	61	21	>40	2	3.3		1	1	1	2	3	7	58
Hardness (mg/L)	14	0	N/A				24	24	27	30	31	32	32
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.4	11.7	12
Turbidity (NTU)	61	0	>50	0	0		3.3	4	5.1	6.8	8.4	12.8	18
Nutrients (mg/L)													
NH3 as N	252	33	N/A				0.02	0.02	0.02	0.04	0.07	0.1	0.34
NO2 + NO3 as N	252	1	N/A				0.02	0.37	0.47	0.58	0.7	0.79	1.3
TKN as N	251	0	N/A				0.39	0.5	0.56	0.65	0.74	0.84	1.3
Total Phosphorus	251	0	N/A				0.04	0.08	0.1	0.15	0.19	0.22	0.33
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	64.8	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE CONTENTNEA CRK AT SR 1218 CHINQUAPIN RD NR FARMVILLE

Station #: J7690000

Hydrologic Unit Code: 03020203

Latitude: 35.58810

Longitude: -77.54160

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-86-26

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				1.2	2.4	4.8	6.4	7.8	9.3	10.9
pH (SU)	85	0	<4.3	0	0		5.7	6.2	6.4	6.6	6.8	6.9	7.4
	85	0	>9	0	0		5.7	6.2	6.4	6.6	6.8	6.9	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				88	108	130	156	179	225	775
Water Temperature (°C)	85	0	>32	0	0		2.1	7.5	12	21.1	24.8	26.1	29.1
Other													
TSS (mg/L)	60	9	N/A				2.4	2.9	3.6	5.3	6.8	8.4	20
Turbidity (NTU)	60	0	>50	0	0		3.2	5.4	7	9.9	12.8	15	25
Nutrients (mg/L)													
NH3 as N	60	0	N/A				0.03	0.07	0.12	0.23	0.5	0.8	2
NO2 + NO3 as N	60	5	N/A				0.01	0.06	0.19	0.31	0.44	0.8	9.6
TKN as N	60	0	N/A				0.62	0.68	0.94	1.34	1.77	2.22	2.73
Total Phosphorus	56	0	N/A				0.04	0.09	0.13	0.3	0.4	0.72	2.5
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	199.2	15	25	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE CONTENTNEA CRK AT SR 1125 NR BALLARDS CROSSROADS

Station #: J7739550

Hydrologic Unit Code: 03020203

Latitude: 35.52490

Longitude: -77.52271

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-86-26

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	55	0	N/A				3.1	3.9	4.7	6	8.5	13.1
pH (SU)	57	0	<4.3	0	0		4.4	5.8	6.1	6.4	6.6	8.2
	57	0	>9	0	0		4.4	5.8	6.1	6.4	6.6	8.2
Salinity (ppt)	57	0	N/A				0.03	0.04	0.05	0.06	0.07	0.11
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				74	102	120	139	161	239
Water Temperature (°C)	57	0	>32	0	0		0.2	3.7	9.2	16.7	22.3	28.6
Other												
Chlorophyll a (ug/L)	56	7	>40	1	1.8		1	1	1	2	5	42
Hardness (mg/L)	13	0	N/A				32	32	36	40	48	61
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	6.2	12
Turbidity (NTU)	57	0	>50	1	1.8		2.8	3.8	4.4	6.7	8.2	110
Nutrients (mg/L)												
NH3 as N	57	13	N/A				0.02	0.02	0.02	0.04	0.07	0.35
NO2 + NO3 as N	57	6	N/A				0.02	0.02	0.05	0.2	0.36	1.2
TKN as N	56	0	N/A				0.53	0.57	0.7	0.83	0.96	1.6
Total Phosphorus	56	0	N/A				0.05	0.1	0.16	0.25	0.36	0.69

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
56	117.4	8	14.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LITTLE CONTENTNEA CRK AT NC 903 SR 1110 AT SCUFFLETON
Station #: J7740000 **Hydrologic Unit Code:** 03020203
Latitude: 35.45670 **Longitude:** -77.48540 **Stream class:** C Sw NSW
Agency: LNBA **NC stream index:** 27-86-26

Time period: 01/22/2009 to 12/19/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				1.1	5	5.8	6.4	8.1	9.9	11.5
pH (SU)	85	0	<4.3	0	0		6.1	6.5	6.7	6.8	6.9	7.1	7.3
	85	0	>9	0	0		6.1	6.5	6.7	6.8	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				107	130	147	167	182	192	217
Water Temperature (°C)	85	0	>32	0	0		3.2	8.4	13	21.5	25.6	27.2	29.3
Other													
TSS (mg/L)	60	16	N/A				1.1	2.6	2.9	3.6	5.7	8.8	32
Turbidity (NTU)	60	0	>50	0	0		3.3	4.8	5.6	7.4	10	17.9	29
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.03	0.05	0.07	0.1	0.19	0.59
NO2 + NO3 as N	60	1	N/A				0.01	0.12	0.25	0.37	0.59	0.9	1.56
TKN as N	60	0	N/A				0.32	0.53	0.65	0.8	1.03	1.26	2.45
Total Phosphorus	56	0	N/A				0.05	0.08	0.13	0.21	0.29	0.32	0.85
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	131.7	8	13.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CONTENTNEA CRK NR SR 1800 AT GRIFTON

Station #: J7810000

Hydrologic Unit Code: 03020203

Latitude: 35.36852

Longitude: -77.43412

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-86-(7)

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	# EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				1.1	4.7	5.9	7.3	9.2	10.7	12.2
pH (SU)	61	0	<4.3	0	0		5.1	6.1	6.4	6.6	6.8	7.1	7.6
	61	0	>9	0	0		5.1	6.1	6.4	6.6	6.8	7.1	7.6
Salinity (ppt)	60	0	N/A				0.03	0.04	0.04	0.05	0.06	0.07	0.08
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				81	96	108	125	140	150	178
Water Temperature (°C)	61	0	>32	0	0		2.9	6.8	11.7	19	23.8	28	29.5
Other													
Chlorophyll a (ug/L)	61	15	>40	1	1.6		1	1	1	2	2	7	56
Hardness (mg/L)	14	0	N/A				25	26	29	34	38	41	41
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	61	0	>50	0	0		2.6	3.7	4.8	6.4	7.8	8.9	20
Nutrients (mg/L)													
NH3 as N	60	6	N/A				0.02	0.02	0.02	0.04	0.07	0.09	0.24
NO2 + NO3 as N	61	0	N/A				0.06	0.34	0.4	0.55	0.63	0.79	1.2
TKN as N	60	0	N/A				0.43	0.48	0.54	0.63	0.74	0.89	1.2
Total Phosphorus	60	0	N/A				0.03	0.08	0.11	0.17	0.2	0.23	0.37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	52.3	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 1470 NR FORT BARNWELL

Station #: J7850000

Hydrologic Unit Code: 03020202

Latitude: 35.31389

Longitude: -77.30302

Stream class: C Sw NSW

Agency: LNBA

NC stream index: 27-(85)

Time period: 01/16/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	N/A				5.5	6.1	6.4	7.1	8.9	10.6	12.4
pH (SU)	85	0	<4.3	0	0		6	6.8	6.9	7.1	7.2	7.4	8
	85	0	>9	0	0		6	6.8	6.9	7.1	7.2	7.4	8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				74	117	129	148	165	179	227
Water Temperature (°C)	85	0	>32	1	1.2		2.7	7.9	13.1	23.4	26.4	28.8	32.4
Other													
Chlorophyll a (ug/L)	30	4	>40	0	0		1	1	2	3	6	12	18
TSS (mg/L)	60	9	N/A				2.2	2.9	3	5.2	8.3	14.9	123
Turbidity (NTU)	60	0	>50	1	1.7		3.1	5	6.2	8.2	15	20	140
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.02	0.05	0.07	0.12	0.19	1.15
NO2 + NO3 as N	60	1	N/A				0.02	0.32	0.41	0.53	0.61	0.82	1.28
TKN as N	60	0	N/A				0.4	0.45	0.63	0.77	0.98	1.29	1.96
Total Phosphorus	56	0	N/A				0.04	0.07	0.08	0.12	0.18	0.27	0.58

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	69.2	7	11.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NEUSE RIV AT SR 1470 NR FORT BARNWELL

Station #: J7850000

Hydrologic Unit Code: 03020202

Latitude: 35.31389

Longitude: -77.30302

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-(85)

Time period: 01/05/2009 to 12/23/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	250	0	N/A				0	5.6	6.3	7.4	9.7	10.8	13.1
pH (SU)	252	0	<4.3	0	0		5.6	6.3	6.5	6.8	7	7.3	8.5
	252	0	>9	0	0		5.6	6.3	6.5	6.8	7	7.3	8.5
Salinity (ppt)	252	0	N/A				0.02	0.04	0.05	0.06	0.07	0.08	0.12
Spec. conductance (umhos/cm at 25°C)	253	0	N/A				74	96	116	140	165	186	252
Water Temperature (°C)	252	0	>32	1	0.4		2.1	7.7	11.6	19.3	25.9	28.6	32.7
Other													
Chlorophyll a (ug/L)	60	5	>40	0	0		1	1	2	3	6	14	25
Hardness (mg/L)	14	0	N/A				25	26	30	35	38	43	44
TSS (mg/L)	20	7	N/A				6.2	6.2	6.4	9.1	12	17.7	32
Turbidity (NTU)	61	0	>50	0	0		2.7	4.5	6.7	11	14	21.6	31
Nutrients (mg/L)													
NH3 as N	252	59	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.33
NO2 + NO3 as N	252	4	N/A				0.02	0.3	0.43	0.53	0.64	0.75	1.1
TKN as N	251	0	N/A				0.35	0.46	0.52	0.6	0.68	0.8	1.6
Total Phosphorus	251	0	N/A				0.05	0.09	0.1	0.13	0.16	0.18	0.45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	42.3	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT SR 1400 AT STREETS FERRY

Station #: J7930000

Hydrologic Unit Code: 03020202

Latitude: 35.21060

Longitude: -77.12220

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-(85)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	# EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				0.2	5.1	6.2	6.9	8.9	10.7	12
pH (SU)	53	0	<4.3	0	0		6.5	6.6	6.9	7	7.1	7.3	7.6
	53	0	>9	0	0		6.5	6.6	6.9	7	7.1	7.3	7.6
Salinity (ppt)	55	0	N/A				0.03	0.04	0.05	0.06	0.07	0.1	0.13
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				86	104	122	140	158	191	274
Water Temperature (°C)	55	0	>32	0	0		3.9	8.2	12	19.6	26.2	29.6	31.3
Other													
Chlorophyll a (ug/L)	55	9	>40	0	0		1	1	1	3	6	12	23
Hardness (mg/L)	13	0	N/A				30	32	34	36	40	50	54
TSS (mg/L)	21	13	N/A				6.2	6.2	6.2	6.2	6.8	11.2	16
Turbidity (NTU)	55	1	>50	0	0		1	4.3	5.9	7.8	11	14.4	24
Nutrients (mg/L)													
NH3 as N	55	11	N/A				0.02	0.02	0.02	0.03	0.06	0.1	0.17
NO2 + NO3 as N	55	2	N/A				0.02	0.21	0.36	0.48	0.61	0.74	1
TKN as N	55	0	N/A				0.43	0.47	0.52	0.58	0.64	0.77	1.8
Total Phosphorus	55	0	N/A				0.06	0.08	0.09	0.12	0.13	0.14	0.59
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	36.6	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: CREEPING SWAMP AT NC 43 NR VANCEBORO

Station #: J8150000

Hydrologic Unit Code: 03020202

Latitude: 35.39164

Longitude: -77.23134

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-97-5-3

Time period: 01/22/2009 to 12/11/2013

	# results	# ND	# EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				0.4	1.2	2.4	4.3	7.3	11.4	12.6
pH (SU)	61	0	<4.3	1	1.6		3.9	5.6	5.8	6	6.2	6.6	7.1
	61	0	>9	0	0		3.9	5.6	5.8	6	6.2	6.6	7.1
Salinity (ppt)	61	0	N/A				0.01	0.02	0.02	0.03	0.04	0.06	0.09
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				55	63	67	78	102	135	187
Water Temperature (°C)	61	0	>32	0	0		0.1	3.7	10.5	17.2	21.9	26	27.8
Other													
Chlorophyll a (ug/L)	60	13	>40	5	8.3		1	1	1	2	4	36	390
Hardness (mg/L)	14	0	N/A				17	18	21	25	30	46	50
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	15.8	35.2	54
Turbidity (NTU)	61	0	>50	2	3.3		1.6	2.4	3.8	6.1	11.5	23	170
Nutrients (mg/L)													
NH3 as N	61	24	N/A				0.02	0.02	0.02	0.03	0.16	0.42	1.8
NO2 + NO3 as N	61	32	N/A				0.02	0.02	0.02	0.02	0.12	0.36	3.1
TKN as N	60	0	N/A				0.4	0.47	0.76	1	1.6	2.09	3.2
Total Phosphorus	60	0	N/A				0.02	0.02	0.04	0.08	0.14	0.25	0.42
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	148.7	11	18.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT MOUTH NR ASKIN

Station #: J8210000

Hydrologic Unit Code: 03020202

Latitude: 35.19278

Longitude: -77.08984

Stream class: SC Sw NSW

Agency: NCAMBNT

NC stream index: 27-97-(6)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				0.2	2.4	3.4	6	7.5	9	10.3
pH (SU)	53	0	<4.3	0	0		6.3	6.5	6.6	6.7	7	7.1	7.8
	53	0	>8.5	0	0		6.3	6.5	6.6	6.7	7	7.1	7.8
Salinity (ppt)	55	0	N/A				0.02	0.05	0.07	0.09	0.18	0.8	2.6
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				75	120	151	196	324	1410	4764
Water Temperature (°C)	55	0	>32	0	0		4.2	9	12.1	19.8	26.2	29	31.3
Other													
Chlorophyll a (ug/L)	55	10	>40	0	0		1	1	1	3	8	13	25
TSS (mg/L)	21	18	N/A				6.2	6.2	6.2	6.2	6.2	11.6	12
Turbidity (NTU)	55	0	>25	0	0		1.8	3.1	3.8	4.6	7	11	20
Nutrients (mg/L)													
NH3 as N	55	10	N/A				0.02	0.02	0.02	0.04	0.07	0.09	0.16
NO2 + NO3 as N	55	2	N/A				0.02	0.09	0.19	0.33	0.48	0.66	0.84
TKN as N	55	0	N/A				0.47	0.52	0.58	0.65	0.72	0.81	2.2
Total Phosphorus	55	0	N/A				0.04	0.05	0.07	0.09	0.11	0.14	0.49
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	38.6	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT NC 43 NR STREETS FERRY

Station #: J8230000

Hydrologic Unit Code: 03020202

Latitude: 35.23104

Longitude: -77.11388

Stream class: SC Sw NSW

Agency: NCAMBNT

NC stream index: 27-97-(6)

Time period: 01/05/2009 to 12/23/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	252	0	N/A				0	2.8	3.7	5	7.7	9.8	11.2
pH (SU)	254	0	<4.3	0	0		5.2	6	6.3	6.5	6.7	6.9	8.1
	254	0	>8.5	0	0		5.2	6	6.3	6.5	6.7	6.9	8.1
Salinity (ppt)	253	0	N/A				0.01	0.04	0.06	0.08	0.1	0.14	5.84
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				53	108	140	173	208	280	10300
Water Temperature (°C)	254	0	>32	2	0.8		2.1	8.4	12.5	19.9	25.2	28.2	32.2
Nutrients (mg/L)													
NH3 as N	252	53	N/A				0.02	0.02	0.02	0.03	0.06	0.08	0.28
NO2 + NO3 as N	252	13	N/A				0.02	0.08	0.23	0.39	0.61	0.86	1.8
TKN as N	251	0	N/A				0.24	0.48	0.54	0.62	0.73	0.87	2.2
Total Phosphorus	251	0	N/A				0.03	0.05	0.07	0.09	0.12	0.14	0.42

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 68 BELOW SWIFT CRK NR ASKIN

Station #: J8250000

Hydrologic Unit Code: 03020202

Latitude: 35.19009

Longitude: -77.09784

Stream class: SC Sw NSW

Agency: NCAMBNT

NC stream index: 27-(96)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	N/A				0.2	4.6	5.5	6.5	8.6	10.4	11.7
pH (SU)	52	0	<4.3	0	0		6.4	6.6	6.7	6.9	7.1	7.2	7.7
	52	0	>8.5	0	0		6.4	6.6	6.7	6.9	7.1	7.2	7.7
Salinity (ppt)	54	0	N/A				0.03	0.04	0.06	0.07	0.11	0.74	1.2
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				91	115	135	160	251	1384	2087
Water Temperature (°C)	54	0	>32	0	0		3.8	8.1	12.2	19.9	25.7	29.5	30.7
Other													
Chlorophyll a (ug/L)	55	3	>40	0	0		1	1	2	3	6	12	19
TSS (mg/L)	21	16	N/A				6.2	6.2	6.2	6.2	7.9	12	19
Turbidity (NTU)	55	0	>25	0	0		2.6	4	5.3	6.5	10	14.4	19
Nutrients (mg/L)													
NH3 as N	55	4	N/A				0.02	0.02	0.03	0.06	0.08	0.1	0.19
NO2 + NO3 as N	55	2	N/A				0.02	0.19	0.32	0.44	0.58	0.72	0.94
TKN as N	55	0	N/A				0.51	0.53	0.56	0.62	0.69	0.78	1.8
Total Phosphorus	55	0	N/A				0.06	0.08	0.1	0.12	0.13	0.15	0.58
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	29.2	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 52 AT MOUTH OF NARROWS NR WASHINGTON FORKS

Station #: J8290000

Hydrologic Unit Code: 03020202

Latitude: 35.15010

Longitude: -77.07493

Stream class: SC Sw NSW

Agency: NCAMBNT

NC stream index: 27-(96)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				0.2	4.3	5.3	6.4	8.4	10.5	11.7
pH (SU)	53	0	<4.3	0	0		6	6.6	6.8	6.9	7.1	7.2	7.5
	53	0	>8.5	0	0		6	6.6	6.8	6.9	7.1	7.2	7.5
Salinity (ppt)	55	0	N/A				0.03	0.05	0.07	0.12	1.28	3.07	4.6
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				92	119	153	255	2386	5578	8180
Water Temperature (°C)	55	0	>32	0	0		3.8	8.6	12.4	19.3	26.1	29.1	30.7
Other													
Chlorophyll a (ug/L)	55	2	>40	3	5.5		1	1	2	3	6	19	100
TSS (mg/L)	21	17	N/A				6.2	6.2	6.2	6.2	9.9	13.6	16
Turbidity (NTU)	55	0	>25	0	0		1.9	3.6	4.7	6.2	9.2	14.8	22
Nutrients (mg/L)													
NH3 as N	55	5	N/A				0.02	0.02	0.03	0.07	0.09	0.15	0.25
NO2 + NO3 as N	55	2	N/A				0.02	0.08	0.24	0.42	0.54	0.7	0.83
TKN as N	55	0	N/A				0.45	0.54	0.59	0.65	0.73	0.83	1.8
Total Phosphorus	55	0	N/A				0.06	0.07	0.09	0.12	0.14	0.18	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	24.7	1	1.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV .5 MI UPS UNION POINT AT NEW BERN

Station #: J8570000

Hydrologic Unit Code: 03020204

Latitude: 35.10972

Longitude: -77.03174

Stream class: SC Sw NSW

Agency: NCAMBNT

NC stream index: 27-(96)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				0.2	5.3	6.9	7.9	9	10.7	11.8
pH (SU)	53	0	<4.3	0	0		6.6	6.7	7	7.1	7.3	7.7	8.6
	53	0	>8.5	1	1.9		6.6	6.7	7	7.1	7.3	7.7	8.6
Salinity (ppt)	54	0	N/A				0.04	0.07	0.29	2.01	3.93	8.15	9.9
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				96	175	626	3325	6766	14036	16916
Water Temperature (°C)	55	0	>32	0	0		3.6	9	12.9	20.4	26.4	28.9	31.2
Other													
Chlorophyll a (ug/L)	55	0	>40	8	14.5	81.9	1	3	6	14	27	49	105
TSS (mg/L)	21	18	N/A				6.2	6.2	6.2	6.2	7	12	16
Turbidity (NTU)	55	0	>25	1	1.8		1.6	3.4	4.8	5.9	7.5	11.4	26
Nutrients (mg/L)													
NH3 as N	55	17	N/A				0.02	0.02	0.02	0.04	0.08	0.12	0.33
NO2 + NO3 as N	55	8	N/A				0.02	0.02	0.1	0.27	0.4	0.53	0.84
TKN as N	55	0	N/A				0.51	0.6	0.64	0.68	0.78	0.89	1.7
Total Phosphorus	55	0	N/A				0.05	0.06	0.08	0.1	0.15	0.21	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	30.2	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TRENT RIV AT SR 1129 NR TRENTON

Station #: J8690000

Hydrologic Unit Code: 03020204

Latitude: 35.06364

Longitude: -77.46107

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-101-(1)

Time period: 01/22/2009 to 12/11/2013

Field	# results	# ND	# EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				3.1	4.3	5.1	6.4	8.5	10.6	11.8
pH (SU)	61	0	<4.3	0	0		5.6	6.2	6.5	6.9	7	7.3	8.3
	61	0	>9	0	0		5.6	6.2	6.5	6.9	7	7.3	8.3
Salinity (ppt)	60	0	N/A				0.02	0.05	0.06	0.07	0.09	0.12	0.14
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				100	114	135	164	190	259	285
Water Temperature (°C)	61	0	>32	0	0		2.5	6.9	12.2	18.1	22.7	26	29.1
Other													
Chlorophyll a (ug/L)	60	40	>40	0	0		1	1	1	1	1	4	25
Hardness (mg/L)	14	0	N/A				37	40	51	60	81	104	110
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	61	0	>50	0	0		1	1.7	2.2	3.3	4.5	5.6	16
Nutrients (mg/L)													
NH3 as N	61	30	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.47
NO2 + NO3 as N	61	0	N/A				0.08	0.31	0.47	0.74	0.92	1.3	1.9
TKN as N	60	0	N/A				0.41	0.51	0.62	0.72	0.88	1.1	2
Total Phosphorus	60	0	N/A				0.03	0.04	0.06	0.08	0.11	0.13	0.28
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	93	4	6.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TRENT RIV AT US 17 AT POLLOCKSVILLE

Station #: J8730000

Hydrologic Unit Code: 03020204

Latitude: 35.00993

Longitude: -77.21891

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 27-101-(1)

Time period: 01/05/2009 to 12/23/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	251	0	N/A				0	3.7	4.4	5.5	7.7	9.7	11
pH (SU)	254	0	<4.3	0	0		5.2	6.5	6.7	6.9	7.1	7.2	8.2
	254	0	>9	0	0		5.2	6.5	6.7	6.9	7.1	7.2	8.2
Salinity (ppt)	253	0	N/A				0.02	0.05	0.07	0.09	0.1	0.12	2.2
Spec. conductance (umhos/cm at 25°C)	254	0	N/A				72	120	158	190	224	249	4084
Water Temperature (°C)	254	0	>32	0	0		3.2	8.7	12.5	19.5	25	27.9	31
Nutrients (mg/L)													
NH3 as N	252	90	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.38
NO2 + NO3 as N	252	2	N/A				0.02	0.23	0.38	0.54	0.73	0.9	1.5
TKN as N	251	0	N/A				0.33	0.42	0.5	0.6	0.73	0.87	2.2
Total Phosphorus	251	0	N/A				0.05	0.07	0.09	0.13	0.15	0.18	1

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TRENT RIV AT CM 14 ABOVE REEDY BR NR RHEMS
Station #: J8770000 **Hydrologic Unit Code:** 03020204
Latitude: 35.07508 **Longitude:** -77.11441 **Stream class:** SB Sw NSW
Agency: NCAMBNT **NC stream index:** 27-101-(31)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				0.6	4.6	5.3	6.6	7.9	10.3	14.7
pH (SU)	54	0	<4.3	0	0		6.4	6.9	7	7.1	7.3	7.5	8.6
	54	0	>8.5	1	1.9		6.4	6.9	7	7.1	7.3	7.5	8.6
Salinity (ppt)	54	0	N/A				0.04	0.1	0.32	1.38	2.67	5.24	10.77
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				106	205	695	2500	4803	9166	18257
Water Temperature (°C)	55	0	>32	1	1.8		5.7	9.8	13.7	20.6	27.3	29.8	32.1
Other													
Chlorophyll a (ug/L)	55	2	>40	1	1.8		1	1	2	6	16	24	99
TSS (mg/L)	21	18	N/A				6.2	6.2	6.2	6.2	7.3	12	12
Turbidity (NTU)	55	0	>25	0	0		1.3	1.8	2.7	3.6	5.4	7.2	14
Nutrients (mg/L)													
NH3 as N	55	15	N/A				0.02	0.02	0.02	0.04	0.08	0.13	0.22
NO2 + NO3 as N	55	10	N/A				0.02	0.02	0.14	0.36	0.46	0.6	1
TKN as N	55	0	N/A				0.51	0.56	0.6	0.66	0.76	0.87	1.8
Total Phosphorus	55	0	N/A				0.07	0.08	0.09	0.12	0.16	0.24	0.46
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	28.1	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: TRENT RIV AT E FRONT STREET AT NEW BERN

Station #: J8870000

Hydrologic Unit Code: 03020204

Latitude: 35.10159

Longitude: -77.03708

Stream class: SB Sw NSW

Agency: LNBA

NC stream index: 27-101-(39)

Time period: 01/12/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	84	0	N/A				3.4	5.5	6.3	7.2	8.8	12.9
pH (SU)	85	0	<4.3	0	0		6.5	6.8	6.9	7.2	7.4	9.3
	85	0	>8.5	2	2.4		6.5	6.8	6.9	7.2	7.4	9.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				173	662	1230	3884	8308	19138
Water Temperature (°C)	85	0	>32	0	0		2.5	7.1	12.5	23.7	26.4	31.3
Other												
Chlorophyll a (ug/L)	30	1	>40	2	6.7		1	1	3	7	19	69
TSS (mg/L)	60	4	N/A				1	2.9	4.2	5.9	8	25
Turbidity (NTU)	60	0	>25	0	0		1.9	3.1	3.9	5.6	8.1	25
Nutrients (mg/L)												
NH3 as N	60	2	N/A				0.01	0.03	0.05	0.08	0.12	0.24
NO2 + NO3 as N	60	3	N/A				0.01	0.03	0.14	0.28	0.46	0.89
TKN as N	60	0	N/A				0.64	0.69	0.82	1.06	1.19	3.19
Total Phosphorus	56	2	N/A				0.02	0.06	0.08	0.11	0.13	0.34
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	68.1	1	1.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 22 NR FAIRFIELD HARBOUR

Station #: J8900800

Hydrologic Unit Code: 03020204

Latitude: 35.07989

Longitude: -77.00607

Stream class: SC Sw NSW

Agency: NCAMBNT

NC stream index: 27-(96)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	N/A				1.4	6.4	7.8	8.8	9.9	11	14.3
pH (SU)	52	0	<4.3	0	0		6.3	6.7	7.1	7.5	7.9	8.2	8.6
	52	0	>8.5	1	1.9		6.3	6.7	7.1	7.5	7.9	8.2	8.6
Salinity (ppt)	54	0	N/A				0.17	0.35	1.15	3.72	6.2	9.47	11.8
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				343	646	2189	6743	10886	16816	19948
Water Temperature (°C)	54	0	>32	0	0		3.6	8.9	12.7	20.1	25.9	28.8	30.1
Other													
Chlorophyll a (ug/L)	54	0	>40	8	14.8	83.1	1	4	10	20	34	47	98
TSS (mg/L)	21	15	N/A				6.2	6.2	6.2	6.2	6.8	11.6	12
Turbidity (NTU)	55	0	>25	0	0		1.5	3.3	4.4	5.6	7.2	10.7	18
Nutrients (mg/L)													
NH3 as N	55	26	N/A				0.02	0.02	0.02	0.02	0.04	0.1	0.32
NO2 + NO3 as N	55	13	N/A				0.02	0.02	0.04	0.17	0.3	0.43	0.83
TKN as N	55	0	N/A				0.52	0.62	0.67	0.74	0.84	0.96	1.4
Total Phosphorus	55	0	N/A				0.04	0.05	0.07	0.1	0.14	0.23	0.27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	15.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 2 AT MOUTH OF BROAD CRK NR THURMAN

Station #: J8902500

Hydrologic Unit Code: 03020204

Latitude: 35.04898

Longitude: -76.95687

Stream class: SB Sw NSW

Agency: NCAMBNT

NC stream index: 27-(104)

Time period: 01/27/2009 to 11/21/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	N/A				4	6.6	7.6	9.3	11	12.7	15.1
pH (SU)	51	0	<4.3	0	0		6.4	7	7.6	7.9	8.2	8.4	8.8
	51	0	>8.5	2	3.9		6.4	7	7.6	7.9	8.2	8.4	8.8
Salinity (ppt)	54	0	N/A				0.77	1.43	3.35	7.11	10.45	12.9	14.7
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				1443	2648	6054	12404	17634	21534	24317
Water Temperature (°C)	54	0	>32	0	0		3.1	9.2	13	20.2	25.9	29.2	30.6
Other													
Chlorophyll a (ug/L)	54	0	>40	11	20.4	98.3	8	12	17	23	33	50	120
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	10	16.9	21
Turbidity (NTU)	54	0	>25	0	0		1.7	3	3.5	4.8	6.7	9.3	12
Nutrients (mg/L)													
NH3 as N	54	42	N/A				0.02	0.02	0.02	0.02	0.02	0.08	0.14
NO2 + NO3 as N	54	22	N/A				0.02	0.02	0.02	0.02	0.09	0.28	0.45
TKN as N	54	0	N/A				0.53	0.64	0.68	0.75	0.85	1.1	1.6
Total Phosphorus	54	0	N/A				0.03	0.04	0.05	0.09	0.13	0.23	0.27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	5.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NEUSE RIV AT CM 17 NR THURMAN

Station #: J8903500

Hydrologic Unit Code: 03020204

Latitude: 35.02335 **Longitude:** -76.96950

Stream class: SB Sw NSW

Agency: NCAMBNT

NC stream index: 27-(104)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	17	0	N/A				6.6	6.8	7.9	9.2	10.5	11.9	12.8
pH (SU)	15	0	<4.3	0	0		7.2	7.4	7.6	7.8	8	8.2	8.3
	15	0	>8.5	0	0		7.2	7.4	7.6	7.8	8	8.2	8.3
Salinity (ppt)	17	0	N/A				1.16	1.26	2.78	4.96	9.71	14.04	15
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				2096	2332	5086	8838	16556	23337	24727
Water Temperature (°C)	17	0	>32	0	0		5.8	7.2	12.6	19.1	25.2	29.2	30.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 11 NR RIVERDALE

Station #: J8910000

Hydrologic Unit Code: 03020204

Latitude: 34.99860

Longitude: -76.94418

Stream class: SB Sw NSW

Agency: NCAMBNT

NC stream index: 27-(104)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	N/A				3.9	6.9	8.2	9.3	11.8	12.8	14.8
pH (SU)	53	0	<4.3	0	0		6.9	7.4	7.8	8.1	8.3	8.6	8.9
Salinity (ppt)	53	0	>8.5	8	15.1	84.4	6.9	7.4	7.8	8.1	8.3	8.6	8.9
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				1.18	2.79	5.7	9.06	11.75	14.49	17.18
Water Temperature (°C)	54	0	>32	0	0		3.5	9.1	12.5	20.6	26.2	28.9	31.5
Other													
Chlorophyll a (ug/L)	54	0	>40	7	13	70.6	3	11	14	18	31	42	75
TSS (mg/L)	21	11	N/A				6.2	6.2	6.2	6.2	10.5	13.6	15
Turbidity (NTU)	54	0	>25	0	0		1.6	2.1	3.3	4.2	5.3	7.8	9.7
Nutrients (mg/L)													
NH3 as N	54	46	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.18
NO2 + NO3 as N	54	31	N/A				0.02	0.02	0.02	0.02	0.04	0.2	0.7
TKN as N	54	0	N/A				0.51	0.55	0.62	0.69	0.8	0.92	1.2
Total Phosphorus	54	0	N/A				0.03	0.03	0.05	0.07	0.13	0.2	0.24
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	2.3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR KENNEL BEACH

Station #: J8920000

Hydrologic Unit Code: 03020204

Latitude: 34.98711

Longitude: -76.91987

Stream class: SB Sw NSW

Agency: NCAMBNT

NC stream index: 27-(104)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	17	0	N/A				7.3	7.7	8	9.1	11.7	12.9
pH (SU)	17	0	<4.3	0	0		7.5	7.7	7.9	8	8.2	8.9
	17	0	>8.5	1	5.9		7.5	7.7	7.9	8	8.2	8.9
Salinity (ppt)	17	0	N/A				1.77	1.94	5.07	8.3	12.4	16.6
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				3249	3579	9135	14197	20689	27174
Water Temperature (°C)	17	0	>32	1	5.9		6.6	8.1	12.7	20.4	25.4	34.1
Other												
Chlorophyll a (ug/L)	1	0	>40	1	100		41	41	41	41	41	41
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	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	1	0	N/A				0.91	0.91	0.91	0.91	0.91	0.91
Total Phosphorus	1	0	N/A				0.07	0.07	0.07	0.07	0.07	0.07

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR ARAPAHOE

Station #: J8925000

Hydrologic Unit Code: 03020204

Latitude: 34.97617

Longitude: -76.87562

Stream class: SB Sw NSW

Agency: NCAMBNT

NC stream index: 27-(104)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	17	0	N/A				7	7.6	8.2	9.7	11.4	12.5	12.8
pH (SU)	17	0	<4.3	0	0		7.6	7.7	7.9	8	8.1	8.4	8.9
	17	0	>8.5	1	5.9		7.6	7.7	7.9	8	8.1	8.4	8.9
Salinity (ppt)	17	0	N/A				2.14	2.96	6.28	9.6	13.55	17.36	17.5
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				3950	5387	11094	16360	22528	28031	28397
Water Temperature (°C)	17	0	>32	1	5.9		6.5	8.1	12.7	19.7	25.1	30.4	32.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SLOCUM CRK AT SLOCUM RD AT CHERRY POINT

Station #: J9330000

Hydrologic Unit Code: 03020204

Latitude: 34.91770

Longitude: -76.91150

Stream class: SC Sw NSW

Agency: LNBA

NC stream index: 27-112

Time period: 01/12/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	N/A				4.7	5.5	6.3	7.1	9	10.6	12.2
pH (SU)	84	0	<4.3	0	0		5.8	6.7	6.9	7.1	7.3	7.9	8.5
	84	0	>8.5	0	0		5.8	6.7	6.9	7.1	7.3	7.9	8.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				132	798	1112	4519	9912	14049	24918
Water Temperature (°C)	84	0	>32	1	1.2		4.1	7.2	12.6	23.8	26.6	30	32.2
Other													
Chlorophyll a (ug/L)	29	1	>40	1	3.4		1	2	6	16	28	37	43
TSS (mg/L)	59	3	N/A				1	3.1	6	9.3	15	21	33
Turbidity (NTU)	59	0	>25	0	0		2.3	3.7	5	6.8	8.4	12	15
Nutrients (mg/L)													
NH3 as N	59	17	N/A				0.01	0.01	0.02	0.04	0.07	0.09	0.17
NO2 + NO3 as N	59	27	N/A				0.01	0.01	0.01	0.02	0.06	0.12	0.81
TKN as N	59	0	N/A				0.55	0.84	0.91	1.14	1.45	1.67	2.56
Total Phosphorus	55	2	N/A				0.02	0.04	0.06	0.08	0.11	0.2	0.34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	52.6	4	6.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR CHERRY POINT MCAS

Station #: J9431500

Hydrologic Unit Code: 03020204

Latitude: 34.96170

Longitude: -76.84182

Stream class: SB Sw NSW

Agency: NCAMBNT

NC stream index: 27-(104)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	17	0	N/A				7.1	7.3	7.7	9.9	10.9	12.8	13
pH (SU)	17	0	<4.3	0	0		7.6	7.7	7.8	8	8.1	8.3	8.5
	17	0	>8.5	0	0		7.6	7.7	7.8	8	8.1	8.3	8.5
Salinity (ppt)	17	0	N/A				2.83	4.64	6.61	10.3	14.8	17.98	18.31
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				5180	8270	11633	17393	23936	29093	29627
Water Temperature (°C)	17	0	>32	0	0		6.3	7.7	12.7	20.3	25.1	30.8	31.9

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 9 NR MINNESOTT BEACH

Station #: J9530000

Hydrologic Unit Code: 03020204

Latitude: 34.94760

Longitude: -76.80875

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	0	0		5.8	6.8	8	9.4	10.8	12.6	14.7
pH (SU)	54	0	<6.8	0	0		7.3	7.8	7.9	8	8.1	8.3	8.9
Salinity (ppt)	54	0	>8.5	2	3.7		7.3	7.8	7.9	8	8.1	8.3	8.9
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				2.3	5.2	8.17	11.61	13.68	16.91	20.52
Water Temperature (°C)	55	0	>32	1	1.8		4216	9226	14129	19565	22730	27623	32872
Other													
Chlorophyll a (ug/L)	54	0	>40	4	7.4		3.4	8.7	12.4	19.3	26.4	29.1	32.1
TSS (mg/L)	21	15	N/A				8	10	13	16	24	38	104
Turbidity (NTU)	55	0	>25	0	0		6.2	6.2	6.2	6.2	12	20.6	24
Nutrients (mg/L)													
NH3 as N	55	51	N/A				1.5	1.9	3	4.2	5.3	7.5	18
NO2 + NO3 as N	55	41	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.15
TKN as N	55	0	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.45
Total Phosphorus	55	0	N/A				0.48	0.52	0.56	0.63	0.74	0.88	1.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf					
55	1.5	1	1.8		1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR PIERCE

Station #: J9540000

Hydrologic Unit Code: 03020204

Latitude: 34.95234

Longitude: -76.76804

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	17	0	<5	0	0		7	7.4	7.8	9.2	11.1	12.4	12.6
pH (SU)	17	0	<6.8	0	0		7.7	7.8	7.9	7.9	8.1	8.3	8.8
	17	0	>8.5	1	5.9		7.7	7.8	7.9	7.9	8.1	8.3	8.8
Salinity (ppt)	17	0	N/A				4.33	5.52	8.66	11.85	16.6	18.85	19.3
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				7772	9770	14771	19956	27212	30341	31042
Water Temperature (°C)	17	0	>32	1	5.9		5.8	7.4	12.5	19.6	25.1	30.1	32.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR JANEIRO

Station #: J9590000

Hydrologic Unit Code: 03020204

Latitude: 34.96601

Longitude: -76.73751

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	18	0	<5	0	0		6.7	7.1	7.6	9	11.3	12.7	13.6
pH (SU)	18	0	<6.8	0	0		7.7	7.8	7.9	8	8.1	8.3	8.5
	18	0	>8.5	0	0		7.7	7.8	7.9	8	8.1	8.3	8.5
Salinity (ppt)	18	0	N/A				4.92	6.08	9.39	12.85	17.2	19.32	19.5
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				8759	10682	16101	21363	28010	31138	31213
Water Temperature (°C)	18	0	>32	0	0		5.8	6.8	12.8	20	26	29.8	30.9
Other													
Chlorophyll a (ug/L)	1	0	>40	1	100		92	92	92	92	92	92	92
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				0.08	0.08	0.08	0.08	0.08	0.08	0.08
TKN as N	1	0	N/A				1.1	1.1	1.1	1.1	1.1	1.1	1.1
Total Phosphorus	1	0	N/A				0.11	0.11	0.11	0.11	0.11	0.11	0.11

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR MERRIMON

Station #: J9685000

Hydrologic Unit Code: 03020204

Latitude: 34.98733

Longitude: -76.69781

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	18	0	<5	0	0		7.4	7.4	8.2	9	11.4	12.4	14.2
pH (SU)	18	0	<6.8	0	0		7.7	7.8	7.9	8	8.2	8.4	8.5
	18	0	>8.5	0	0		7.7	7.8	7.9	8	8.2	8.4	8.5
Salinity (ppt)	18	0	N/A				6.09	6.92	9.56	14.32	17.98	20.03	20.3
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				10730	12040	16383	23712	29180	32164	32465
Water Temperature (°C)	18	0	>32	0	0		5.6	7.9	12.7	19.8	26	29.3	30.8

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BACK CRK AT SR 1300 NR MERRIMON

Station #: J9690000

Hydrologic Unit Code: 03020204

Latitude: 34.89201

Longitude: -76.62200

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-128-3

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<5	15	26.3	> 99.9	0.1	3.3	4.7	7.3	8.6	10.7	12.2
pH (SU)	57	0	<6.8	16	28.1	> 99.9	5.7	6.4	6.6	7.1	7.4	7.6	8.2
	57	0	>8.5	0	0		5.7	6.4	6.6	7.1	7.4	7.6	8.2
Salinity (ppt)	59	0	N/A				0.11	0.73	2.73	8.77	17.1	25.94	31.94
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				231	1334	4826	14600	29862	40590	48795
Water Temperature (°C)	58	0	>32	3	5.2		5.5	9.5	14.2	20.9	28.3	31.3	34.2
Other													
Chlorophyll a (ug/L)	57	1	>40	4	7		1	2	5	10	23	35	77
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	6.9	9	14	16
Turbidity (NTU)	59	0	>25	1	1.7		2.1	3.7	4.7	6.7	9.4	13	31
Nutrients (mg/L)													
NH3 as N	59	21	N/A				0.02	0.02	0.02	0.07	0.14	0.32	1.6
NO2 + NO3 as N	59	15	N/A				0.02	0.02	0.02	0.2	0.64	2.4	4.7
TKN as N	59	0	N/A				0.49	0.64	0.76	0.88	1.2	1.7	3.4
Total Phosphorus	59	0	N/A				0.03	0.04	0.05	0.08	0.13	0.21	0.56
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf					
59	108.7	6	10.2		110	43	73	> 99.9					

Key:

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

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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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 7 NR ORIENTAL

Station #: J9810000

Hydrologic Unit Code: 03020204

Latitude: 35.00888

Longitude: -76.66037

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	0	0		5.8	6.7	7.6	9.2	10.3	11.6	13.3
pH (SU)	54	0	<6.8	0	0		7.2	7.8	7.9	8	8.1	8.2	8.9
Salinity (ppt)	54	0	>8.5	1	1.9		7.2	7.8	7.9	8	8.1	8.2	8.9
	55	0	N/A				5.97	9.15	13.2	14.99	17.4	19.82	23.44
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				10537	15674	22023	24741	28350	31797	37001
Water Temperature (°C)	55	0	>32	0	0		4.1	8.5	12	19.3	25.9	28.9	30.8
Other													
Chlorophyll a (ug/L)	55	0	>40	1	1.8		5	6	8	11	16	25	47
TSS (mg/L)	21	14	N/A				6.2	6.2	6.2	6.2	12	21.8	28
Turbidity (NTU)	55	0	>25	0	0		1	1.7	2.4	3	3.7	4.5	6.9
Nutrients (mg/L)													
NH3 as N	55	55	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	55	45	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.28
TKN as N	55	0	N/A				0.35	0.4	0.46	0.53	0.6	0.67	0.81
Total Phosphorus	55	0	N/A				0.02	0.03	0.03	0.04	0.07	0.1	0.14
Metals (ug/L)													
Arsenic, dissolved (As)	20	19	>10	0	0		2	2	2	2	10	10	10
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	20	20	>5	0	0		5	5	5	5	5	10	10
Chromium, dissolved (Cr)	20	20	>20	0	0		10	10	10	10	10	46	50
Copper, dissolved (Cu)	19	16	>3	3	15.8	70.5	2	2	2	10	10	17	17
Lead, dissolved (Pb)	20	20	>25	0	0		2	2	2	10	10	46	50
Manganese, dissolved (Mn)	20	14	N/A				10	10	10	10	14	35	37
Nickel, dissolved (Ni)	20	20	>8.3	0	0		10	10	10	10	10	19	20
Zinc, dissolved (Zn)	19	14	>86	0	0		10	10	10	10	15	50	50
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:			Median	# > 43	% > 43	%Conf			
55	1.1	0	0				1	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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM 7 NR ORIENTAL

Station #: J9810000

Hydrologic Unit Code: 03020204

Latitude: 35.00888

Longitude: -76.66037

Stream class: SA HQW NSW

Agency: NCSPPST

NC stream index: 27-(118)

Time period: 10/08/2012 to 10/11/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Metals (ug/L)													
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	8	10	10
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>5	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	4	4	>5	0	0		5	5	5	5	5	5	5
Chromium, dissolved (Cr)	4	4	>20	0	0		10	10	10	30	50	50	50
Chromium, total (Cr)	4	4	>20	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	4	2	>3	2	50		10	10	10	11	19	21	21
Copper, total (Cu)	4	4	>3	0	0		10	10	10	10	10	10	10
Lead, dissolved (Pb)	4	4	>25	0	0		10	10	10	10	10	10	10
Lead, total (Pb)	4	4	>25	0	0		10	10	10	10	10	10	10
Manganese, dissolved (Mn)	4	3	N/A				10	10	10	10	18	20	20
Manganese, total (Mn)	4	0	N/A				54	54	64	96	122	130	130
Nickel, dissolved (Ni)	4	4	>8.3	0	0		10	10	10	10	10	10	10
Nickel, total (Ni)	4	4	>8.3	0	0		10	10	10	10	10	10	10
Zinc, dissolved (Zn)	4	0	>86	0	0		12	12	13	15	16	16	16
Zinc, total (Zn)	4	1	>86	0	0		10	10	10	11	15	16	16

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

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR COCKLE POINT

Station #: J9860000

Hydrologic Unit Code: 03020204

Latitude: 35.02759

Longitude: -76.59756

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	13	0	<5	0	0		7.1	7.1	7.9	8.9	10.7	11	11.2
pH (SU)	13	0	<6.8	0	0		7.9	7.9	8	8	8.1	8.2	8.2
	13	0	>8.5	0	0		7.9	7.9	8	8	8.1	8.2	8.2
Salinity (ppt)	13	0	N/A				8.02	8.11	11.3	17.89	20.1	21.7	21.9
Spec. conductance (umhos/cm at 25°C)	13	0	N/A				13895	14042	19114	29158	32228	34574	34830
Water Temperature (°C)	13	0	>32	0	0		5.5	6.7	13	23.8	28	29.9	30.4

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV NR PINEY POINT

Station #: J9900000

Hydrologic Unit Code: 03020204

Latitude: 35.06442

Longitude: -76.52654

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 07/15/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	12	0	<5	0	0		6.5	6.7	7.2	8.8	10.5	10.8	10.9
pH (SU)	12	0	<6.8	0	0		7.8	7.8	7.9	8	8	8.2	8.2
	12	0	>8.5	0	0		7.8	7.8	7.9	8	8	8.2	8.2
Salinity (ppt)	12	0	N/A				8.5	8.55	11.86	16.9	20.4	21.78	21.9
Spec. conductance (umhos/cm at 25°C)	12	0	N/A				14676	14721	19946	27547	32658	34713	34887
Water Temperature (°C)	12	0	>32	0	0		5.4	6.2	13	21.8	27.4	29.2	29.4

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

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEUSE RIV AT CM NR AT MOUTH NR PAMLICO

Station #: J9930000

Hydrologic Unit Code: 03020204

Latitude: 35.10997

Longitude: -76.47607

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-(118)

Time period: 01/27/2009 to 09/25/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	27	0	<5	0	0		5.7	7	7.3	8.1	8.8	10.2	10.9
pH (SU)	28	0	<6.8	0	0		7.4	7.8	7.9	8	8	8.1	8.2
	28	0	>8.5	0	0		7.4	7.8	7.9	8	8	8.1	8.2
Salinity (ppt)	28	0	N/A				8.94	11.8	15.52	19.16	21.13	22.87	24.9
Spec. conductance (umhos/cm at 25°C)	28	0	N/A				15378	19862	25508	30874	33681	36308	39089
Water Temperature (°C)	28	0	>32	0	0		5.4	12.7	18.6	25.6	28.5	29.1	29.8
Other													
Chlorophyll a (ug/L)	27	0	>40	0	0		2	4	4	8	11	13	19
TSS (mg/L)	10	5	N/A				6.2	6.2	6.2	6.2	7.8	17.2	18
Turbidity (NTU)	28	0	>25	0	0		1.5	1.7	2.1	2.8	3.2	4.5	4.9
Nutrients (mg/L)													
NH3 as N	28	28	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	28	24	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	28	0	N/A				0.3	0.33	0.37	0.44	0.47	0.54	0.56
Total Phosphorus	28	0	N/A				0.02	0.03	0.03	0.04	0.06	0.08	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf					
28	1.1	0	0		1	0	0						

Key:

result: number of observations

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

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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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BAY RIV AT CM 5 NR VANDEMERE

Station #: J9950000

Hydrologic Unit Code: 03020204

Latitude: 35.17057

Longitude: -76.65155

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 27-150-(9.5)

Time period: 01/26/2009 to 06/23/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	17	0	<5	0	0		6.1	6.3	7.7	9.3	10.4	12.1	13.1
pH (SU)	17	0	<6.8	0	0		7.5	7.5	7.5	7.8	7.9	8.1	8.3
	17	0	>8.5	0	0		7.5	7.5	7.5	7.8	7.9	8.1	8.3
Salinity (ppt)	16	0	N/A				9.7	9.83	12.88	17.3	20.4	21.42	21.7
Spec. conductance (umhos/cm at 25°C)	16	0	N/A				16582	16728	21504	27831	32649	34112	34484
Water Temperature (°C)	17	0	>32	0	0		3.4	4.9	9	16.9	27.1	30.2	31.8
Other													
Chlorophyll a (ug/L)	17	0	>40	0	0		4	4	7	11	20	29	39
TSS (mg/L)	6	2	N/A				6.2	6.2	6.7	8.5	10.5	12	12
Turbidity (NTU)	17	0	>25	0	0		1.6	1.7	2.3	4.1	6.5	8.4	11
Nutrients (mg/L)													
NH3 as N	17	13	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.05
NO2 + NO3 as N	17	8	N/A				0.02	0.02	0.02	0.03	0.11	0.27	0.34
TKN as N	17	0	N/A				0.43	0.44	0.54	0.59	0.72	0.96	1
Total Phosphorus	17	0	N/A				0.02	0.02	0.03	0.04	0.05	0.07	0.07
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf					
17	1.9	0	0		2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

New

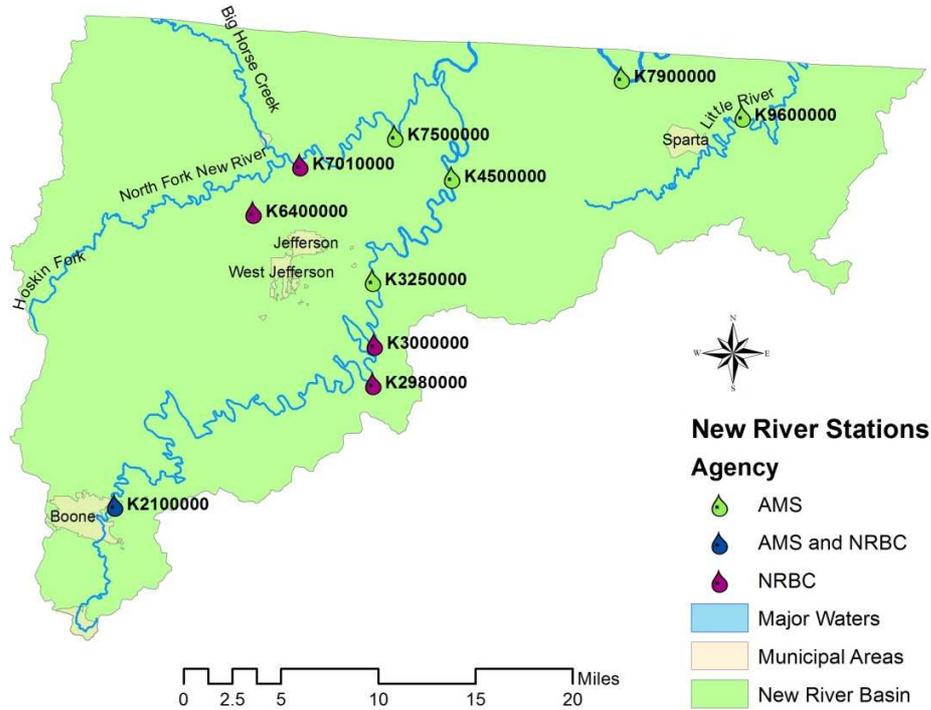


Figure NEW-1. New River basin ambient monitoring station locations, 2009-2013.

Table NEW-1. Ambient monitoring stations in the New River basin, 2009-2013.

Station	Agency	Location	Stream Class	Latitude	Longitude
K2100000	AMS & NRBC	S Fork New River at US 221 and 421 at Perksville	C +	36.2208	-81.6397
K2980000	NRBC	S Fork New River at NC 163 near Obids	WS-V HQW	36.3172	-81.4049
K3000000	NRBC	S Fork New River at SR 1159 (Boggs Rd) near Glendale Springs	WS-V HQW	36.3469	-81.4044
K3250000	AMS	South Fork New River at NC 16 and 88 near Jefferson	WS-IV HQW	36.3947	-81.4075
K4500000	AMS	South Fork New River at US 221 near Scottville	B ORW	36.4738	-81.3365
K6400000	NRBC	Buffalo Ck at BC Hunter Rd near Warrensville	C Tr HQW	36.4437	-81.5193
K7010000	NRBC	North Fork New River at SR 1514 (Deep Ford Rd) near Bina	C ORW	36.4803	-81.4771
K7500000	AMS	North Fork New River at SR 1573 at Crumpler	C +	36.5040	-81.3900
K7900000	AMS	New River at SR 1345 at Amelia	C ORW	36.5519	-81.1817
K9600000	AMS	Little River at SR 1426 near Edwards Crossroads	C	36.5247	-81.0694

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: S FORK NEW RIV AT US 221 AND 421 AT PERKINSVILLE

Station #: K2100000

Hydrologic Unit Code: 05050001

Latitude: 36.22088

Longitude: -81.63978

Stream class: C +

Agency: NCAMBNT

NC stream index: 10-1-(3.5)

Time period: 01/29/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		7.4	8.2	8.4	9.9	11.7	13	15.2
	60	0	<5	0	0		7.4	8.2	8.4	9.9	11.7	13	15.2
pH (SU)	59	0	<6	0	0		6.8	7.1	7.2	7.4	7.8	7.9	8.2
	59	0	>9	0	0		6.8	7.1	7.2	7.4	7.8	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				48	90	106	147	188	219	268
Water Temperature (°C)	60	0	>29	0	0		2.2	4.5	7.4	14.8	18.7	21.6	25.7
Other													
Hardness (mg/L)	14	0	N/A				19	22	26	30	40	41	41
TSS (mg/L)	19	13	N/A				6.2	6.2	6.2	6.2	15	68	120
Turbidity (NTU)	60	1	>50	2	3.3		1	1.3	1.7	2.3	4.1	12.7	70
Nutrients (mg/L)													
NH3 as N	60	42	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.06
NO2 + NO3 as N	60	0	N/A				0.36	0.74	1	1.45	2.07	2.79	3.6
TKN as N	60	13	N/A				0.2	0.2	0.2	0.22	0.29	0.39	0.71
Total Phosphorus	60	1	N/A				0.02	0.02	0.03	0.06	0.13	0.22	0.28

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	83.5	6	10.2	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: S FORK NEW RIV AT US 221 AND 421 AT PERKINSVILLE

Station #: K2100000

Hydrologic Unit Code: 05050001

Latitude: 36.22088

Longitude: -81.63978

Stream class: C +

Agency: NRBC

NC stream index: 10-1-(3.5)

Time period: 08/09/2011 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	26	0	<4	0	0		8.4	8.6	8.9	9.9	11.4	13.1	14.2
	26	0	<5	0	0		8.4	8.6	8.9	9.9	11.4	13.1	14.2
pH (SU)	29	0	<6	0	0		6.6	7	7.1	7.3	7.4	7.6	7.7
	29	0	>9	0	0		6.6	7	7.1	7.3	7.4	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	27	0	N/A				94	105	124	152	187	219	267
Water Temperature (°C)	29	0	>29	0	0		2.6	6.5	8.3	14.6	17.8	22.6	23.7
Other													
Turbidity (NTU)	22	0	>50	2	9.1		0.6	1.2	1.4	3.2	4.6	49.5	103
Nutrients (mg/L)													
NH3 as N	25	20	N/A				0.02	0.02	0.02	0.02	0.2	0.2	0.2
NO2 + NO3 as N	25	0	N/A				0.78	0.81	0.99	1.46	2.07	3.8	6
TKN as N	25	16	N/A				0.14	0.18	0.2	0.2	0.31	0.87	1.4
Total Phosphorus	24	6	N/A				0.02	0.03	0.05	0.15	0.16	0.3	0.39

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
20	65	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S FORK NEW RIV AT NC 163 NR OBIDS

Station #: K2980000

Hydrologic Unit Code: 05050001

Latitude: 36.31720

Longitude: -81.40500

Stream class: WS-V HQW

Agency: NRBC

NC stream index: 10-1-(20.5)

Time period: 08/09/2011 to 08/09/2011

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	1	0	<4	0	0		8.4	8.4	8.4	8.4	8.4	8.4
	1	0	<5	0	0		8.4	8.4	8.4	8.4	8.4	8.4
pH (SU)	1	0	<6	0	0		8.4	8.4	8.4	8.4	8.4	8.4
	1	0	>9	0	0		8.4	8.4	8.4	8.4	8.4	8.4
Spec. conductance (umhos/cm at 25°C)	1	0	N/A				97	97	97	97	97	97
Water Temperature (°C)	1	0	>29	0	0		24.5	24.5	24.5	24.5	24.5	24.5
Other												
Turbidity (NTU)	1	0	>50	0	0		2.4	2.4	2.4	2.4	2.4	2.4
Nutrients (mg/L)												
NH3 as N	1	1	N/A				0.2	0.2	0.2	0.2	0.2	0.2
NO2 + NO3 as N	1	0	>10	0	0		0.58	0.58	0.58	0.58	0.58	0.58
TKN as N	1	1	N/A				0.14	0.14	0.14	0.14	0.14	0.14
Total Phosphorus	1	1	N/A				0.16	0.16	0.16	0.16	0.16	0.16
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
1	39	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S FORK NEW RIV AT SR 1159 NR GLENDALE SPRINGS

Station #: K3000000

Hydrologic Unit Code: 05050001

Latitude: 36.34690

Longitude: -81.40440

Stream class: WS-IV HQW

Agency: NRBC

NC stream index: 10-1-(26)

Time period: 09/21/2011 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	25	0	<4	0	0		8.5	8.7	9	9.9	11.7	13.1	15.6
	25	0	<5	0	0		8.5	8.7	9	9.9	11.7	13.1	15.6
pH (SU)	28	0	<6	0	0		6.3	7.3	7.5	7.8	8.2	8.6	8.9
	28	0	>9	0	0		6.3	7.3	7.5	7.8	8.2	8.6	8.9
Spec. conductance (umhos/cm at 25°C)	26	0	N/A				36	66	71	77	82	88	129
Water Temperature (°C)	28	0	>29	0	0		2	5.1	6.8	13.4	19	24.4	25.7
Other													
Turbidity (NTU)	21	0	>50	0	0		0.6	0.9	2.4	3.8	12	15.6	50
Nutrients (mg/L)													
NH3 as N	24	21	N/A				0.02	0.02	0.02	0.02	0.16	0.2	0.2
NO2 + NO3 as N	24	0	>10	0	0		0.49	0.55	0.63	0.69	0.89	1.24	1.57
TKN as N	24	13	N/A				0.14	0.2	0.2	0.2	0.3	0.53	1.12
Total Phosphorus	23	11	N/A				0.02	0.02	0.02	0.04	0.16	0.16	0.52

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
20	26.2	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: S FORK NEW RIV AT NC 16 AND 88 NR JEFFERSON

Station #: K3250000

Hydrologic Unit Code: 05050001

Latitude: 36.39473

Longitude: -81.40750

Stream class: WS-IV HQW

Agency: NCAMBNT

NC stream index: 10-1-(26)

Time period: 01/14/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		7.7	8.4	8.9	10.3	11.8	13.6	14.6
	60	0	<5	0	0		7.7	8.4	8.9	10.3	11.8	13.6	14.6
pH (SU)	57	0	<6	0	0		6.5	7.1	7.5	7.8	8.1	8.4	9
	57	0	>9	0	0		6.5	7.1	7.5	7.8	8.1	8.4	9
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				43	57	65	71	78	89	141
Water Temperature (°C)	60	0	>29	0	0		0.3	3.9	7.8	13.6	19.5	23	25.3
Other													
Hardness (mg/L)	14	0	>100	0	0		16	16	18	20	20	22	22
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	9.1	12	65.2	576
Turbidity (NTU)	60	7	>50	4	6.7		1	1	1.8	2.9	6.8	21	380
Nutrients (mg/L)													
NH3 as N	60	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.12
NO2 + NO3 as N	60	0	>10	0	0		0.31	0.47	0.55	0.63	0.79	0.82	0.98
TKN as N	60	23	N/A				0.2	0.2	0.2	0.2	0.25	0.31	2.5
Total Phosphorus	60	23	N/A				0.02	0.02	0.02	0.02	0.04	0.08	3.8
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	32.2	6	10.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: S FORK NEW RIV AT US 221 NR SCOTTVILLE

Station #: K4500000

Hydrologic Unit Code: 05050001

Latitude: 36.47378

Longitude: -81.33649

Stream class: B ORW

Agency: NCAMBNT

NC stream index: 10-1-(33.5)

Time period: 01/14/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		7.3	8.2	8.7	10.2	11.7	12.7	14.6
	60	0	<5	0	0		7.3	8.2	8.7	10.2	11.7	12.7	14.6
pH (SU)	57	0	<6	0	0		6.6	7.3	7.5	7.7	8.1	8.4	9.2
	57	0	>9	1	1.8		6.6	7.3	7.5	7.7	8.1	8.4	9.2
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				54	60	66	73	77	83	146
Water Temperature (°C)	60	0	>29	0	0		0.3	3.7	7.4	13.7	20.7	24.5	27.7
Other													
Hardness (mg/L)	14	0	N/A				18	18	19	20	22	25	26
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	7.6	11.5	44.7	93
Turbidity (NTU)	60	5	>50	4	6.7		1	1.1	2.3	4.3	8.2	26.8	310
Nutrients (mg/L)													
NH3 as N	59	52	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.12
NO2 + NO3 as N	59	0	N/A				0.33	0.41	0.5	0.6	0.74	0.84	0.97
TKN as N	59	18	N/A				0.2	0.2	0.2	0.21	0.25	0.38	3.3
Total Phosphorus	59	13	N/A				0.02	0.02	0.02	0.02	0.04	0.1	1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	23.6	4	6.8										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: BUFFALO CRK AT BC HUNTER RD NR WARRENSVILLE

Station #: K6400000

Hydrologic Unit Code: 05050001

Latitude: 36.44370

Longitude: -81.51930

Stream class: C Tr HQW

Agency: NRBC

NC stream index: 10-2-20

Time period: 08/09/2011 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	26	0	<6	0	0		8	8.7	9.3	10.6	11.9	13.4	14.5
pH (SU)	29	0	<6	0	0		6.4	7.3	7.5	7.7	7.9	8.1	8.3
	29	0	>9	0	0		6.4	7.3	7.5	7.7	7.9	8.1	8.3
Spec. conductance (umhos/cm at 25°C)	27	0	N/A				86	91	96	103	113	130	134
Water Temperature (°C)	29	0	>20	2	6.9		2.2	5.5	7.4	13.1	15.8	18.5	20.6
	29	0	>29	0	0		2.2	5.5	7.4	13.1	15.8	18.5	20.6
Other													
Turbidity (NTU)	21	0	>10	5	23.8	94.8	0.6	0.7	1.5	4	10.4	19.6	45
Nutrients (mg/L)													
NH3 as N	25	25	N/A				0.02	0.02	0.02	0.02	0.2	0.2	0.2
NO2 + NO3 as N	25	0	N/A				0.58	0.78	0.88	0.94	1.08	1.29	1.37
TKN as N	25	15	N/A				0.14	0.18	0.2	0.2	0.36	0.87	1.68
Total Phosphorus	24	9	N/A				0.02	0.02	0.03	0.04	0.16	0.16	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
21	108	4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: N FORK NEW RIV AT SR 1514 DEEP FORD RD NR BINA

Station #: K7010000

Hydrologic Unit Code: 05050001

Latitude: 36.48040

Longitude: -81.47710

Stream class: C ORW

Agency: NRBC

NC stream index: 10-2-(12)

Time period: 08/09/2011 to 12/09/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	26	0	<4	0	0		7.6	8.6	9.8	10.5	12.2	13.7	15.5
	26	0	<5	0	0		7.6	8.6	9.8	10.5	12.2	13.7	15.5
pH (SU)	29	0	<6	0	0		6.5	7.2	7.4	7.7	7.9	8.1	8.9
	29	0	>9	0	0		6.5	7.2	7.4	7.7	7.9	8.1	8.9
Spec. conductance (umhos/cm at 25°C)	27	0	N/A				42	52	54	60	68	73	77
Water Temperature (°C)	29	0	>29	0	0		1.3	4.8	6.8	12.6	16.8	21.3	22.6
Other													
Turbidity (NTU)	22	0	>50	2	9.1		0.7	1.3	2.9	6.8	18.5	74.5	100
Nutrients (mg/L)													
NH3 as N	25	23	N/A				0.02	0.02	0.02	0.02	0.2	0.2	0.2
NO2 + NO3 as N	25	0	N/A				0.22	0.4	0.5	0.58	0.86	1.45	3.27
TKN as N	25	8	N/A				0.14	0.2	0.2	0.28	0.68	0.94	1.12
Total Phosphorus	24	9	N/A				0.02	0.02	0.03	0.04	0.16	0.16	0.17

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
21	99.4	3	14.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: N FORK NEW RIV AT SR 1573 AT CRUMPLER

Station #: K7500000

Hydrologic Unit Code: 05050001

Latitude: 36.50403

Longitude: -81.39004

Stream class: C ORW

Agency: NCAMBNT

NC stream index: 10-2-(12)

Time period: 01/14/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		7.2	8.3	8.9	10.4	11.6	13.3	15.1
	60	0	<5	0	0		7.2	8.3	8.9	10.4	11.6	13.3	15.1
pH (SU)	57	0	<6	0	0		6.7	7.2	7.5	7.6	7.9	8.1	8.4
	57	0	>9	0	0		6.7	7.2	7.5	7.6	7.9	8.1	8.4
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				45	55	59	64	68	76	85
Water Temperature (°C)	60	0	>29	0	0		0	3.3	8.2	12.3	19.3	23	25.1
Other													
Hardness (mg/L)	14	0	N/A				18	18	19	22	22	24	24
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	9.2	17	94.5	190
Turbidity (NTU)	60	3	>50	4	6.7		1	1.2	2.1	5.2	9.5	45	160
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
59	67.3		9	15.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW RIV AT SR 1345 AT AMELIA

Station #: K7900000

Hydrologic Unit Code: 05050001

Latitude: 36.55190

Longitude: -81.18172

Stream class: C ORW

Agency: NCAMBNT

NC stream index: 10

Time period: 01/14/2009 to 12/11/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<4	0	0		6.3	7.7	8.3	9.8	11.7	13	15.4
	53	0	<5	0	0		6.3	7.7	8.3	9.8	11.7	13	15.4
pH (SU)	53	0	<6	0	0		6.8	7.2	7.4	7.7	8.1	8.5	9
	53	0	>9	0	0		6.8	7.2	7.4	7.7	8.1	8.5	9
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				49	56	61	66	72	78	94
Water Temperature (°C)	54	0	>29	0	0		1.6	4.8	9.2	16.7	22.6	26.4	27.8
Other													
Hardness (mg/L)	14	0	N/A				18	18	19	20	22	23	23
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	18.8	70.2	121
Turbidity (NTU)	55	1	>50	1	1.8		1	1.1	2.1	3.4	9.4	28.8	55
Nutrients (mg/L)													
NH3 as N	55	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.07
NO2 + NO3 as N	55	0	N/A				0.18	0.28	0.48	0.55	0.66	0.8	0.98
TKN as N	55	15	N/A				0.2	0.2	0.2	0.24	0.31	0.39	0.98
Total Phosphorus	55	6	N/A				0.02	0.02	0.02	0.03	0.04	0.08	0.28
Metals (ug/L)													
Arsenic, dissolved (As)	28	28	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	0	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	28	28	>7	0	0		2	2	2	2	2	2	2
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	8	N/A				10	10	10	12	14	22	24
Nickel, dissolved (Ni)	28	28	>88	0	0		2	2	2	2	2	10	10
Zinc, dissolved (Zn)	26	26	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	44.6	3	5.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW RIV AT SR 1345 AT AMELIA

Station #: K7900000

Hydrologic Unit Code: 05050001

Latitude: 36.55190

Longitude: -81.18172

Stream class: C ORW

Agency: NCS PST

NC stream index: 10

Time period: 11/05/2012 to 11/08/2012

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Other												
Hardness (mg/L)	4	0	N/A				19	19	19	20	21	21
Metals (ug/L)												
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Copper, dissolved (Cu)	3	3	>7	0	0		2	2	2	2	2	2
Copper, total (Cu)	4	4	>7	0	0		2	2	2	2	2	2
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Manganese, dissolved (Mn)	4	4	N/A				10	10	10	10	10	10
Manganese, total (Mn)	4	3	N/A				10	10	10	10	12	12
Nickel, dissolved (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Nickel, total (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Zinc, dissolved (Zn)	4	4	>50	0	0		10	10	10	10	10	10
Zinc, total (Zn)	4	4	>50	0	0		10	10	10	10	10	10

Key:

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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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE RIV AT SR 1426 NR EDWARDS CROSSROADS

Station #: K9600000

Hydrologic Unit Code: 05050001

Latitude: 36.52465

Longitude: -81.06939

Stream class: C

Agency: NCAMBNT

NC stream index: 10-9-(6)

Time period: 01/14/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		5.9	8.3	8.7	10.2	12.3	14	15.1
	56	0	<5	0	0		5.9	8.3	8.7	10.2	12.3	14	15.1
pH (SU)	55	0	<6	0	0		6.5	6.9	7.4	7.6	7.9	8.1	8.6
	55	0	>9	0	0		6.5	6.9	7.4	7.6	7.9	8.1	8.6
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				23	42	46	49	53	58	96
Water Temperature (°C)	57	0	>29	0	0		0.1	2.5	8	13.1	18.2	21.3	24.9
Other													
Hardness (mg/L)	12	0	N/A				12	12	13	13	15	15	15
TSS (mg/L)	17	11	N/A				6.2	6.2	6.2	6.2	11	25	61
Turbidity (NTU)	58	4	>50	0	0		1	1.1	1.5	2.6	4.4	13	50
Nutrients (mg/L)													
NH3 as N	2	2	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	2	0	N/A				0.65	0.65	0.65	0.75	0.85	0.85	0.85
TKN as N	2	1	N/A				0.2	0.2	0.2	0.21	0.22	0.22	0.22
Total Phosphorus	2	0	N/A				0.03	0.03	0.03	0.03	0.03	0.03	0.03
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
55	67.9	8	14.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Pasquotank



Figure PAS-1. Pasquotank River basin ambient monitoring station locations, 2009-2013.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table PAS-1. AMS monitoring stations in the Pasquotank River basin, 2009-2013.

Station	Location	Stream Class	Latitude	Longitude
HUC 03010205: Albemarle Sound and Associated Drainages				
M2750000	Pasquotank River at Elizabeth City	SB	36.2806	-76.1714
M3500000	Little River at SR 1367 at Woodville	C Sw	36.2405	-76.3246
M390000C	Albemarle Sound near Frog Island Mid Channel	SB	36.0625	-76.0016
M390000N	Albemarle Sound near Frog Island North Shore	SB	36.1503	-76.0210
M390000S	Albemarle Sound near Frog Island South Shore	SB	35.9695	-75.9795
M5000000	Perquimans River at SR 1336 at Hertford	SC	36.1939	-76.4661
M610000C	Albemarle Sound between Harvey Point and Mill Point Mid-Channel	SB	36.0215	-76.3060
M610000N	Albemarle Sound between Harvey Point and Mill Point North Shore	SB	36.0835	-76.2929
M610000S	Albemarle Sound btwn Harvey Point and Mill Point South Shore	SB	35.9635	-76.3126
M6920000	Kendrick Creek at SR 1300 at Mackeys	SC	35.9300	-76.6098
M6980000	Scuppernong River at SR 1105 near Columbia	C Sw	35.8776	-76.3376
M7175000	Alligator River at US 64 near Alligator	SC Sw ORW	35.8986	-76.0098

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PASQUOTANK RIV AT ELIZABETH CITY

Station #: M2750000

Hydrologic Unit Code: 03010205

Latitude: 36.28061

Longitude: -76.17139

Stream class: SB

Agency: NCAMBNT

NC stream index: 30-3-(12)

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	47	0	<5	0	0		5.4	7.5	8.4	9.9	10.7	12.1	12.7
pH (SU)	47	0	<6.8	9	19.1	95.9	6.1	6.3	6.9	7.4	7.9	8.3	8.9
	47	0	>8.5	3	6.4		6.1	6.3	6.9	7.4	7.9	8.3	8.9
Salinity (ppt)	47	0	N/A				0.08	0.32	1.41	2.21	3.24	4.75	6.2
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				187	616	2625	4126	5890	8483	10899
Water Temperature (°C)	47	0	>32	0	0		3.8	6.4	10.9	19	27.7	30.6	31.5
Other													
Chlorophyll a (ug/L)	48	4	>40	4	8.3		1	2	11	22	30	40	53
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	6.2	10	13	14
Turbidity (NTU)	48	0	>25	0	0		3.1	3.5	4.2	6	7.9	12.1	15
Nutrients (mg/L)													
NH3 as N	48	29	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.23
NO2 + NO3 as N	48	18	N/A				0.02	0.02	0.02	0.04	0.24	0.29	0.55
TKN as N	48	0	N/A				0.72	0.84	0.95	1.1	1.2	1.3	1.4
Total Phosphorus	48	0	N/A				0.03	0.04	0.05	0.07	0.09	0.12	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
48	6.9	0	0										

Key:

result: number of observations

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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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE RIV AT SR 1367 AT WOODVILLE

Station #: M3500000

Hydrologic Unit Code: 03010205

Latitude: 36.24051

Longitude: -76.32464

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 30-5-(1)

Time period: 01/08/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				0.2	0.4	0.9	1.9	5.3	8.6	11.2
pH (SU)	60	0	<4.3	0	0		5.8	6.2	6.4	6.6	6.8	7	7.5
	60	0	>9	0	0		5.8	6.2	6.4	6.6	6.8	7	7.5
Salinity (ppt)	60	0	N/A				0.02	0.07	0.09	0.13	0.2	0.34	1.44
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				61	168	200	270	398	661	2660
Water Temperature (°C)	60	0	>32	0	0		0.7	4.4	8.6	16.3	22.7	25.3	27.9
Other													
Hardness (mg/L)	14	0	N/A				55	58	68	88	110	200	270
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	11.8	12	16
Turbidity (NTU)	60	0	>50	1	1.7		1.6	2.3	3.5	5.5	9	16.7	55
Nutrients (mg/L)													
NH3 as N	59	14	N/A				0.02	0.02	0.02	0.13	0.37	0.84	1.3
NO2 + NO3 as N	59	31	N/A				0.02	0.02	0.02	0.02	0.17	0.55	1.8
TKN as N	59	0	N/A				0.84	1.2	1.4	1.8	2.2	2.7	3
Total Phosphorus	59	0	N/A				0.03	0.08	0.16	0.31	0.56	0.72	0.94
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	69.1	4	6.7										

Key:

result: number of observations

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

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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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND NR FROG ISLAND MID CHANNEL

Station #: M390000C

Hydrologic Unit Code: 03010205

Latitude: 36.06250

Longitude: -76.00163

Stream class: SB

Agency: NCAMBNT

NC stream index: 30

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	49	0	<5	0	0		7.9	8.4	8.8	9.7	11.2	12.4	13.7
pH (SU)	49	0	<6.8	0	0		7.3	7.5	7.8	7.9	8.2	8.4	8.9
Salinity (ppt)	49	0	>8.5	3	6.1		7.3	7.5	7.8	7.9	8.2	8.4	8.9
	49	0	N/A				0.19	1.02	3.19	4.33	5.71	6.96	8.34
Spec. conductance (umhos/cm at 25°C)	49	0	N/A				374	1912	5778	7760	10128	12158	14410
Water Temperature (°C)	49	0	>32	0	0		3.9	5.4	11.3	20.1	26.9	28.6	30.3
Other													
Chlorophyll a (ug/L)	49	0	>40	2	4.1		1	5	8	12	18	32	44
TSS (mg/L)	19	6	N/A				6.2	6.2	6.2	8.5	12	17	26
Turbidity (NTU)	49	0	>25	2	4.1		1.7	3.1	3.8	5	7.2	11	35
Nutrients (mg/L)													
NH3 as N	49	47	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	49	41	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.23
TKN as N	49	0	N/A				0.39	0.5	0.54	0.62	0.69	0.78	0.85
Total Phosphorus	49	0	N/A				0.02	0.02	0.03	0.03	0.04	0.05	0.09
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
49	1.1	0	0										

Key:

result: number of observations

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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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND NR FROG ISLAND N SHORE

Station #: M390000N

Hydrologic Unit Code: 03010205

Latitude: 36.15033

Longitude: -76.02095

Stream class: SB

Agency: NCAMBNT

NC stream index: 30

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	49	0	<5	0	0		7.5	8.4	9.1	9.8	11.4	12.2	13.6
pH (SU)	49	0	<6.8	1	2		6.5	7.5	7.8	8	8.2	8.7	9.3
Salinity (ppt)	49	0	>8.5	8	16.3	88.8	6.5	7.5	7.8	8	8.2	8.7	9.3
Spec. conductance (umhos/cm at 25°C)	49	0	N/A				0.14	0.91	2.59	3.79	5.17	6.4	8.1
Water Temperature (°C)	49	0	>32	0	0		3.9	6.5	11.4	19.8	26.5	28.8	30.2
Other													
Chlorophyll a (ug/L)	4	0	>40	1	25		15	15	16	18	66	82	82
TSS (mg/L)	17	1	N/A				6.2	6.8	8.8	10	12.5	22	22
Turbidity (NTU)	50	0	>25	2	4		2.3	3.6	5.4	6.9	8.6	13.9	28
Nutrients (mg/L)													
NH3 as N	50	46	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	50	41	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.26
TKN as N	50	0	N/A				0.39	0.51	0.56	0.62	0.7	0.84	1.2
Total Phosphorus	50	0	N/A				0.02	0.03	0.03	0.04	0.05	0.05	0.09
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
50	1.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: ALBEMARLE SOUND NR FROG ISLAND S SHORE
Station #: M390000S **Hydrologic Unit Code:** 03010205
Latitude: 35.96945 **Longitude:** -75.97953 **Stream class:** SB
Agency: NCAMBNT **NC stream index:** 30

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	50	0	<5	0	0		7.3	8.3	8.6	9.6	11.2	12.3	13.6
pH (SU)	50	0	<6.8	0	0		7.3	7.4	7.8	7.9	8.2	8.6	8.8
Salinity (ppt)	50	0	>8.5	5	10		7.3	7.4	7.8	7.9	8.2	8.6	8.8
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				0.32	0.91	3.28	4.47	5.65	6.38	8.35
Water Temperature (°C)	50	0	>32	0	0		3.9	5.7	10.8	19.4	27	28.6	29.7
Other													
Chlorophyll a (ug/L)	1	0	>40	0	0		34	34	34	34	34	34	34
TSS (mg/L)	20	6	N/A				6.2	6.2	6.3	9.1	10	14.8	15
Turbidity (NTU)	50	0	>25	1	2		2.7	3.2	3.8	5.1	7.5	11	27
Nutrients (mg/L)													
NH3 as N	50	47	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	50	38	N/A				0.02	0.02	0.02	0.02	0.02	0.08	0.24
TKN as N	50	0	N/A				0.44	0.5	0.54	0.62	0.7	0.81	1
Total Phosphorus	50	0	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
50	1.1	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 greater than 10% (20% for Fecal Coliform)
Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PERQUIMANS RIV AT SR 1336 AT HERTFORD

Station #: M5000000

Hydrologic Unit Code: 03010205

Latitude: 36.19387

Longitude: -76.46611

Stream class: SC

Agency: NCAMBNT

NC stream index: 30-6-(3)

Time period: 01/08/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<5	7	11.9	62.2	2.7	4.7	5.6	7.3	9.3	10.7	13.5
pH (SU)	60	0	<6.8	44	73.3	> 99.9	5.3	6	6.3	6.5	6.8	7	8.1
	60	0	>8.5	0	0		5.3	6	6.3	6.5	6.8	7	8.1
Salinity (ppt)	60	0	N/A				0.04	0.11	0.41	0.95	1.6	2.23	4.44
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				100	243	797	1764	2973	4078	7939
Water Temperature (°C)	60	0	>32	0	0		1.9	7.3	12	20.1	26.8	29.2	31.4
Other													
Chlorophyll a (ug/L)	60	7	>40	6	10		1	1	3	6	15	43	200
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	6.9	9.1	12
Turbidity (NTU)	60	0	>25	1	1.7		1.6	2.1	2.7	4.2	5.8	6.8	35
Nutrients (mg/L)													
NH3 as N	60	13	N/A				0.02	0.02	0.02	0.06	0.1	0.16	0.24
NO2 + NO3 as N	60	8	N/A				0.02	0.02	0.05	0.13	0.35	0.57	1.7
TKN as N	60	0	N/A				0.75	0.83	0.95	1.1	1.3	1.4	2
Total Phosphorus	60	0	N/A				0.04	0.06	0.08	0.11	0.18	0.24	0.44
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	37	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND BETWEEN HARVEY PT AND MILL PT MID CHANNEL

Station #: M610000C

Hydrologic Unit Code: 03010205

Latitude: 36.02151

Longitude: -76.30602

Stream class: SB

Agency: NCAMBNT

NC stream index: 30

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<5	0	0		7.4	8	8.7	9.5	11.4	12.6	13.8
pH (SU)	53	0	<6.8	0	0		7.1	7.3	7.7	7.9	8.1	8.4	8.5
Salinity (ppt)	53	0	>8.5	0	0		7.1	7.3	7.7	7.9	8.1	8.4	8.5
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				0.04	0.12	1.7	2.64	3.87	4.3	6.11
Water Temperature (°C)	53	0	>32	0	0		3.9	5.5	10.8	19.2	25.2	28.2	29.4
Other													
Chlorophyll a (ug/L)	54	0	>40	0	0		2	4	8	12	16	28	40
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	7	9.8	12	12
Turbidity (NTU)	54	0	>25	2	3.7		1.8	2.9	3.6	5.2	7.2	10.7	45
Nutrients (mg/L)													
NH3 as N	54	52	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	54	42	N/A				0.02	0.02	0.02	0.02	0.02	0.1	0.24
TKN as N	54	0	N/A				0.36	0.47	0.5	0.56	0.64	0.69	0.78
Total Phosphorus	54	0	N/A				0.02	0.02	0.03	0.03	0.04	0.05	0.09
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
54	1.1		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND BETWEEN HARVEY PT AND MILL PT N SHORE

Station #: M610000N

Hydrologic Unit Code: 03010205

Latitude: 36.08348

Longitude: -76.29288

Stream class: SB

Agency: NCAMBNT

NC stream index: 30

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<5	0	0		7.4	8.2	8.6	9.6	11.3	12.3	13.5
pH (SU)	53	0	<6.8	0	0		7	7.3	7.7	8	8.1	8.4	8.7
Salinity (ppt)	53	0	>8.5	1	1.9		7	7.3	7.7	8	8.1	8.4	8.7
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				0.05	0.15	1.7	2.8	3.43	4.45	5.99
Water Temperature (°C)	53	0	>32	0	0		4	6.3	10.8	19.8	25.3	28.1	29.5
Other													
TSS (mg/L)	19	8	N/A				6.2	6.2	6.2	7.2	12	14	37
Turbidity (NTU)	54	0	>25	1	1.9		1.8	3.5	4.4	6.2	7.7	12	34
Nutrients (mg/L)													
NH3 as N	54	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	54	41	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.31
TKN as N	54	0	N/A				0.42	0.47	0.51	0.57	0.64	0.7	0.87
Total Phosphorus	54	0	N/A				0.02	0.03	0.03	0.04	0.05	0.07	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	1.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND BETWEEN HARVEY PT AND MILL PT S SHORE

Station #: M610000S

Hydrologic Unit Code: 03010205

Latitude: 35.96353

Longitude: -76.31261

Stream class: SB

Agency: NCAMBNT

NC stream index: 30

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	52	0	<5	0	0		6.6	7.8	8.3	9.6	11.3	12.4	13.6
pH (SU)	52	0	<6.8	1	1.9		6.4	7	7.4	7.8	8.1	8.3	8.8
	52	0	>8.5	1	1.9		6.4	7	7.4	7.8	8.1	8.3	8.8
Salinity (ppt)	52	0	N/A				0.03	0.11	1.53	2.48	3.41	4.32	5.3
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				90	245	2837	4540	6156	7740	9395
Water Temperature (°C)	52	0	>32	0	0		4	6.3	10.6	18.7	25.2	28.3	30.9
Other													
TSS (mg/L)	17	7	N/A				6.2	6.2	6.2	7	9.7	13.4	19
Turbidity (NTU)	53	0	>25	1	1.9		2.4	3	4.4	5.9	7.6	11	40
Nutrients (mg/L)													
NH3 as N	53	51	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	53	37	N/A				0.02	0.02	0.02	0.02	0.02	0.1	0.25
TKN as N	53	0	N/A				0.36	0.45	0.5	0.58	0.68	0.75	0.92
Total Phosphorus	53	0	N/A				0.02	0.02	0.03	0.04	0.04	0.06	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	1.5	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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: KENDRICK CRK AT SR 1300 AT MACKEYS

Station #: M6920000

Hydrologic Unit Code: 03010205

Latitude: 35.92995

Longitude: -76.60983

Stream class: SC

Agency: NCAMBNT

NC stream index: 30-9-(2)

Time period: 01/08/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<5	25	42.4	> 99.9	0.5	2.1	3.5	6.1	7.8	9.7	10.7
pH (SU)	60	0	<6.8	49	81.7	> 99.9	5.2	5.8	6.1	6.4	6.7	6.9	7.9
	60	0	>8.5	0	0		5.2	5.8	6.1	6.4	6.7	6.9	7.9
Salinity (ppt)	60	0	N/A				0.04	0.08	0.1	0.15	0.3	0.47	1.65
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				101	172	222	298	594	902	3055
Water Temperature (°C)	60	0	>32	0	0		2.4	8	10.6	18.6	25.2	27.8	30
Other													
Chlorophyll a (ug/L)	60	1	>40	7	11.7	60.5	1	1	2	5	11	43	88
Hardness (mg/L)	1	0	N/A				27	27	27	27	27	27	27
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	9.4	12	21
Turbidity (NTU)	60	0	>25	6	10		3.4	4.4	6.1	10.4	16.8	25.8	80
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.02	0.02	0.03	0.07	0.12	0.24	0.64
NO2 + NO3 as N	60	5	N/A				0.02	0.03	0.18	0.5	1.87	2.79	7.1
TKN as N	60	0	N/A				0.51	0.8	0.97	1.1	1.6	1.8	2.8
Total Phosphorus	60	0	N/A				0.04	0.04	0.06	0.07	0.1	0.14	0.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	48.7	4	6.7										

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: SCUPPERNONG RIV AT SR 1105 NR COLUMBIA

Station #: M6980000

Hydrologic Unit Code: 03010205

Latitude: 35.87762

Longitude: -76.33761

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 30-14-4-(1)

Time period: 01/08/2009 to 12/17/2013

Field	# results	# ND	# EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	59	0	N/A				0.2	0.6	1.1	2.1	5.7	10.1
pH (SU)	60	0	<4.3	0	0		5.3	5.8	6.1	6.3	6.5	7.1
	60	0	>9	0	0		5.3	5.8	6.1	6.3	6.5	7.1
Salinity (ppt)	60	0	N/A				0.04	0.07	0.09	0.11	0.27	1.95
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				99	159	199	241	540	3591
Water Temperature (°C)	60	0	>32	0	0		2.8	7.9	10.4	18.4	24.6	29.3
Other												
Chlorophyll a (ug/L)	60	3	>40	2	3.3		1	1	2	4	8	160
Hardness (mg/L)	14	0	N/A				17	35	56	76	128	280
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.6	8.9	13
Turbidity (NTU)	60	0	>50	0	0		1.4	2.8	4.7	7.6	12.8	50
Nutrients (mg/L)												
NH3 as N	60	0	N/A				0.03	0.06	0.1	0.15	0.29	0.92
NO2 + NO3 as N	60	7	N/A				0.02	0.02	0.12	0.39	1.18	5.2
TKN as N	60	0	N/A				1.1	1.2	1.4	1.6	1.9	3.3
Total Phosphorus	60	0	N/A				0.06	0.08	0.08	0.11	0.15	0.46
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
60	56.3	4	6.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALLIGATOR RIV AT US 64 NR ALLIGATOR

Station #: M7175000

Hydrologic Unit Code: 03010205

Latitude: 35.89859

Longitude: -76.00978

Stream class: SC Sw ORW

Agency: NCAMBNT

NC stream index: 30-16-(7)

Time period: 01/27/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	N/A				7.5	7.8	8.2	9.3	10.8	12.2	13.4
pH (SU)	51	0	<4.3	0	0		7	7.2	7.4	7.7	7.8	8.1	8.7
	51	0	>8.5	1	2		7	7.2	7.4	7.7	7.8	8.1	8.7
Salinity (ppt)	51	0	N/A				1.08	1.65	3.47	4.04	5.05	6.06	7.98
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				2008	3045	6263	7290	9049	10618	13820
Water Temperature (°C)	51	0	>32	0	0		3.8	5.9	11.5	21	27.2	28.9	30.6
Other													
Chlorophyll a (ug/L)	50	0	>40	1	2		2	5	7	10	15	25	42
TSS (mg/L)	17	6	N/A				6.2	6.2	7.6	12	13.5	23.8	47
Turbidity (NTU)	50	0	>25	0	0		3	3.9	5.5	7.2	10	15	21
Nutrients (mg/L)													
NH3 as N	51	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	51	35	N/A				0.02	0.02	0.02	0.02	0.02	0.08	0.16
TKN as N	51	0	N/A				0.5	0.53	0.62	0.74	0.81	0.93	0.97
Total Phosphorus	51	1	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
51	1.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Roanoke

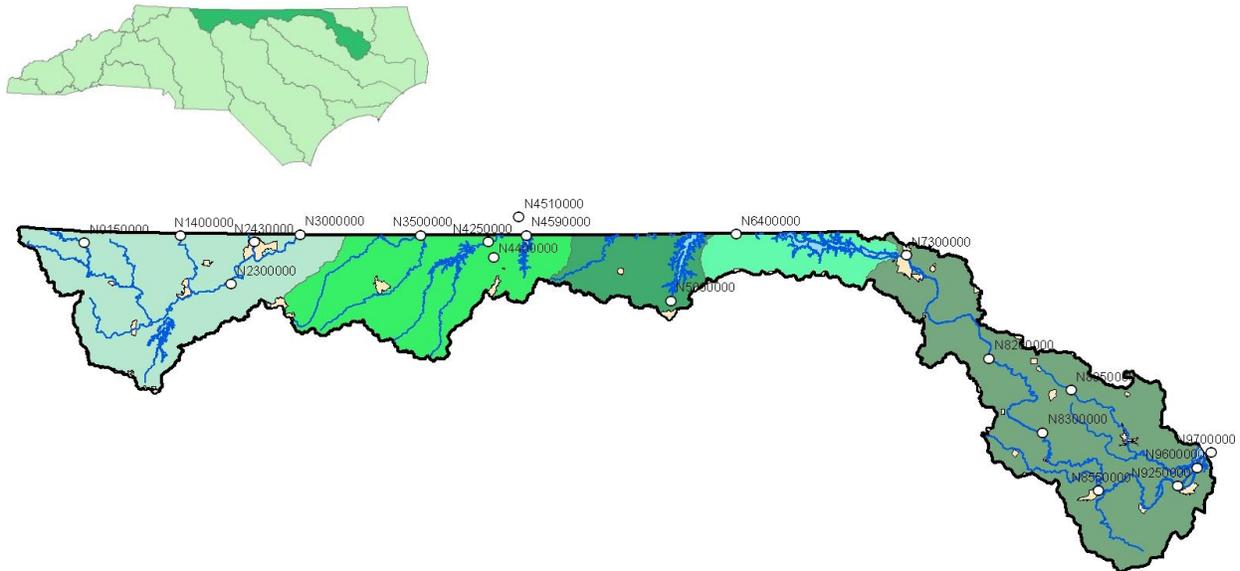


Figure ROA-1. Roanoke River basin ambient monitoring station locations, 2009-2013.

Table ROA-1. AMS monitoring stations in the Roanoke River basin, 2009-2013.

Station	Location	Stream Class	Latitude	Longitude
Dan River Headwaters: HUC 03010103				
N0150000	Dan River at NC 704 near FraNCisco	C Tr	36.5146	-80.3028
N1400000	Mayo River at SR 1358 near Price	WS-V	36.5351	-79.9912
N2300000	Dan River at SR 2150 near Wentworth	WS-IV	36.4106	-79.8269
N2430000	Smith River at SR 1714 near Eden	WS-IV	36.5209	-79.7528
N3000000	Dan River at SR 1761 near Mayfield	C	36.5414	-79.6053
Dan River: HUC 03010104				
N3500000	Dan River at NC 57 at Va Line at Milton	C	36.5408	-79.2142
N4250000	Hyc0 River Below Afterbay Dam near Mcghees Mill	C	36.5235	-78.996
N4400000	Marlowe Creek at SR 1322 near Woodsdale	C	36.4833	-78.9794
N4510000	Hyc0 River at US 501 near Denniston Va	III NT	36.5881	-78.8981
N4590000	Mayo Creek at SR 1501 near Bethel Hill	C	36.5402	-78.8736
Kerr Reservoir: HUC 03010102				
N5000000	Nutbush Creek at SR 1317 near Henderson	C	36.3691	-78.4083
Lake Gaston: HUC 03010106				
N6400000	Smith Creek at US 1 near Paschall	C	36.5409	-78.1951
Roanoke River: HUC 03010107				
N7300000	Roanoke River at NC 48 at Roanoke Rapids	WS-IV CA	36.4815	-77.6453
N8200000	Roanoke River at US 258 near Scotland Neck	C	36.2093	-77.3839
N8300000	Roanoke River at NC 11 near Lewiston	C	36.014	-77.2149
N8550000	Roanoke River at US 13 And US 17 at Williamston	C	35.8599	-77.0401
N8950000	Cashie River at SR 1219 near Lewiston	C Sw	36.1238	-77.1214
N9250000	Roanoke River 1.3 mi ups from Welch Creek near Plymouth	C Sw	35.8677	-76.7854
N9600000	Roanoke River at NC 45 at Sans Souci	C Sw	35.9147	-76.7225
Albemarle Sound: HUC 03010205				
N9700000	Albemarle Sound at Batchelor Bay near Black Walnut	SB	35.9533	-76.676

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DAN RIV AT NC 704 NR FRANCISCO

Station #: N0150000

Hydrologic Unit Code: 03010103

Latitude: 36.51459

Longitude: -80.30282

Stream class: C Tr

Agency: NCAMBNT

NC stream index: 22-(1)

Time period: 01/27/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<6	0	0		6.1	8.2	8.8	10.5	12.5	14.7	17.1
pH (SU)	53	0	<6	0	0		6.7	7.2	7.4	7.6	8	8.2	8.7
	53	0	>9	0	0		6.7	7.2	7.4	7.6	8	8.2	8.7
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				34	46	47	49	51	55	58
Water Temperature (°C)	116	0	>32	0	0		0.6	4.5	7.5	14.6	20.3	24.1	26.9
Other													
Hardness (mg/L)	16	0	N/A				14	14	15	16	16	16	17
TSS (mg/L)	22	18	N/A				6.2	6.2	6.2	6.2	6.8	10.9	24
Turbidity (NTU)	58	0	>10	6	10.3	47	1.2	1.8	2.5	3.5	5.4	15.2	350
Nutrients (mg/L)													
NH3 as N	58	53	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	58	0	N/A				0.14	0.25	0.3	0.4	0.44	0.52	0.57
TKN as N	58	31	N/A				0.2	0.2	0.2	0.2	0.2	0.29	1.4
Total Phosphorus	58	18	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.48

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
56	44.6	4	7.1	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MAYO RIV AT SR 1358 NR PRICE

Station #: N1400000

Hydrologic Unit Code: 03010103

Latitude: 36.53514

Longitude: -79.99117

Stream class: WS-V

Agency: NCAMBNT

NC stream index: 22-30-(1)

Time period: 01/07/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	0	0		6.9	8.1	9.1	10.2	12.3	13.6	16.8
	54	0	<5	0	0		6.9	8.1	9.1	10.2	12.3	13.6	16.8
pH (SU)	58	0	<6	0	0		7	7.4	7.6	7.8	8	8.2	8.8
	58	0	>9	0	0		7	7.4	7.6	7.8	8	8.2	8.8
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				35	48	51	54	57	61	91
Water Temperature (°C)	58	0	>32	0	0		1.1	5.1	7.8	15	22.4	24.7	27.6
Other													
Hardness (mg/L)	14	0	>100	0	0		14	16	18	19	20	20	20
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	12	32.9	38
Turbidity (NTU)	59	0	>50	3	5.1		2	3.1	4.4	6.5	12	17	700
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	75.3	6	10.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DAN RIV AT SR 2150 NR WENTWORTH

Station #: N2300000

Hydrologic Unit Code: 03010103

Latitude: 36.41055

Longitude: -79.82693

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 22-(31.5)

Time period: 01/07/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		7.1	7.6	8	9.6	11.7	13.8	16.2
	56	0	<5	0	0		7.1	7.6	8	9.6	11.7	13.8	16.2
pH (SU)	58	0	<6	0	0		6.9	7	7.2	7.4	7.6	7.8	8
	58	0	>9	0	0		6.9	7	7.2	7.4	7.6	7.8	8
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				54	69	80	94	117	138	175
Water Temperature (°C)	58	0	>32	0	0		0.8	5	8.8	16	23.8	27	29.6
Other													
Hardness (mg/L)	14	0	>100	0	0		26	26	29	32	40	47	52
TSS (mg/L)	20	6	N/A				6.2	6.2	6.3	13.5	46.5	195.9	245
Turbidity (NTU)	58	0	>50	9	15.5	87.8	2.8	4	5	9.5	26.2	111	550
Nutrients (mg/L)													
NH3 as N	56	40	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.04
NO2 + NO3 as N	56	1	>10	0	0		0.02	0.05	0.12	0.2	0.27	0.32	0.39
TKN as N	56	17	N/A				0.2	0.2	0.2	0.21	0.28	0.75	2.2
Total Phosphorus	56	1	N/A				0.02	0.02	0.02	0.03	0.06	0.24	0.83
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	115	12	20.7	49.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SMITH RIV AT SR 1714 NR EDEN

Station #: N2430000

Hydrologic Unit Code: 03010103

Latitude: 36.52087

Longitude: -79.75281

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 22-40-(1)

Time period: 01/07/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	0	0		6.9	7.9	8.5	10.1	12	13.9	15.9
	55	0	<5	0	0		6.9	7.9	8.5	10.1	12	13.9	15.9
pH (SU)	58	0	<6	0	0		6.8	7.2	7.4	7.5	7.7	8	8.6
	58	0	>9	0	0		6.8	7.2	7.4	7.5	7.7	8	8.6
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				51	63	71	78	87	99	130
Water Temperature (°C)	58	0	>32	0	0		3.2	5	9.4	14.9	21.2	24	25.1
Other													
Hardness (mg/L)	13	0	>100	0	0		23	23	25	26	26	28	28
TSS (mg/L)	19	8	N/A				6.2	6.2	6.2	14	28	152	470
Turbidity (NTU)	60	0	>50	6	10		2.1	2.7	3.4	5.7	13	53.3	360
Metals (ug/L)													
Arsenic, dissolved (As)	26	26	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	26	26	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	26	26	>2	0	0		0	0	1	1	1	1	1
Chromium, dissolved (Cr)	26	26	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	26	25	>7	0	0		2	2	2	2	2	2	2
Lead, dissolved (Pb)	26	26	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	2	>200	0	0		10	10	12	16	20	23	23
Nickel, dissolved (Ni)	26	26	>25	0	0		2	2	2	2	2	10	10
Zinc, dissolved (Zn)	26	26	>50	0	0		10	10	10	10	10	10	10
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	93.9	9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SMITH RIV AT SR 1714 NR EDEN

Station #: N2430000

Hydrologic Unit Code: 03010103

Latitude: 36.52087

Longitude: -79.75281

Stream class: WS-IV

Agency: NCS PST

NC stream index: 22-40-(1)

Time period: 03/14/2011 to 03/17/2011

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Other												
Hardness (mg/L)	4	0	>100	0	0		22	22	22	24	24	24
Metals (ug/L)												
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Copper, dissolved (Cu)	4	4	>7	0	0		2	2	2	2	2	2
Copper, total (Cu)	4	4	>7	0	0		2	2	2	2	2	2
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Manganese, dissolved (Mn)	4	1	>200	0	0		10	10	10	12	16	16
Manganese, total (Mn)	4	0	>200	0	0		52	52	53	58	60	60
Nickel, dissolved (Ni)	4	4	>25	0	0		2	2	2	2	2	2
Nickel, total (Ni)	4	4	>25	0	0		2	2	2	2	2	2
Zinc, dissolved (Zn)	4	4	>50	0	0		10	10	10	10	10	10
Zinc, total (Zn)	4	4	>50	0	0		10	10	10	10	10	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DAN RIV AT SR 1761 NR MAYFIELD

Station #: N3000000

Hydrologic Unit Code: 03010103

Latitude: 36.54142

Longitude: -79.60525

Stream class: C

Agency: NCAMBNT

NC stream index: 22-(39)

Time period: 01/07/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	0	0		6.8	7.3	7.8	9.5	12.1	13.8	16.4
	55	0	<5	0	0		6.8	7.3	7.8	9.5	12.1	13.8	16.4
pH (SU)	57	0	<6	0	0		6.8	7.2	7.3	7.5	7.6	7.9	8.4
	57	0	>9	0	0		6.8	7.2	7.3	7.5	7.6	7.9	8.4
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				56	72	82	94	109	115	146
Water Temperature (°C)	58	0	>32	0	0		3	4.6	8.9	15.9	23.4	27.9	30.4
Other													
Hardness (mg/L)	14	0	N/A				26	26	28	32	35	40	43
TSS (mg/L)	19	10	N/A				6.2	6.2	6.2	8.5	12	66	322
Turbidity (NTU)	59	0	>50	8	13.6	76.5	1.7	3.6	5.1	8.1	20	160	250
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
59	91.8		8	13.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DAN RIV AT NC 57 AT VA LINE AT MILTON

Station #: N3500000

Hydrologic Unit Code: 03010104

Latitude: 36.54079

Longitude: -79.21422

Stream class: C

Agency: NCAMBNT

NC stream index: 22-(55.75)

Time period: 01/07/2009 to 12/03/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	0	0		5.8	6.6	7.3	9.1	11.5	13.6	16.4
	54	0	<5	0	0		5.8	6.6	7.3	9.1	11.5	13.6	16.4
pH (SU)	57	0	<6	0	0		6.9	7.3	7.4	7.6	7.8	7.8	8.6
	57	0	>9	0	0		6.9	7.3	7.4	7.6	7.8	7.8	8.6
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				68	85	93	116	143	162	230
Water Temperature (°C)	57	0	>32	0	0		2.4	4.9	9.1	17	23.9	28.4	31
Other													
Hardness (mg/L)	13	0	N/A				27	27	30	34	39	44	46
TSS (mg/L)	19	7	N/A				6.2	6.2	6.2	12	22	180	185
Turbidity (NTU)	58	0	>50	9	15.5	87.8	3.4	4.1	5.3	12.5	25.2	121	180
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
58	98.2		10	17.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: HYCO RIV BELOW AFTERBAY DAM NR MCGHEES MILL

Station #: N4250000

Hydrologic Unit Code: 03010104

Latitude: 36.52353

Longitude: -78.99600

Stream class: C

Agency: NCAMBNT

NC stream index: 22-58-(9.5)

Time period: 01/29/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		5.7	6.1	7.1	8.6	11.2	12.1	14.2
	30	0	<5	0	0		5.7	6.1	7.1	8.6	11.2	12.1	14.2
pH (SU)	31	0	<6	0	0		6.5	7.1	7.2	7.3	7.5	7.7	8.2
	31	0	>9	0	0		6.5	7.1	7.2	7.3	7.5	7.7	8.2
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				155	187	254	337	377	414	487
Water Temperature (°C)	31	0	>32	0	0		4.8	6.6	9.5	15.9	25.3	28.2	28.9
Other													
Hardness (mg/L)	14	0	N/A				66	70	114	135	142	170	180
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	11.5	12
Turbidity (NTU)	31	0	>50	0	0		2	2.3	2.5	3.8	4.2	6.5	16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
31	3.3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MARLOWE CRK AT SR 1322 NR WOODSDALE

Station #: N4400000

Hydrologic Unit Code: 03010104

Latitude: 36.48325

Longitude: -78.97941

Stream class: C

Agency: NCAMBNT

NC stream index: 22-58-12-6

Time period: 01/29/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		6.6	6.9	7.4	9.9	12	13.5	16.1
	30	0	<5	0	0		6.6	6.9	7.4	9.9	12	13.5	16.1
pH (SU)	31	0	<6	0	0		6.4	6.8	7	7.4	7.5	7.9	9.1
	31	0	>9	1	3.2		6.4	6.8	7	7.4	7.5	7.9	9.1
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				107	115	160	210	280	368	399
Water Temperature (°C)	31	0	>32	0	0		1.9	4.4	7.8	13.8	21.7	23.4	26.2
Other													
Hardness (mg/L)	14	0	N/A				27	27	30	40	44	49	50
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.5	11	46	116
Turbidity (NTU)	31	0	>50	2	6.5		2.7	3.2	4.6	8.5	16	40	130
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
31	138.6	6	19.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HYCO RIV AT US 501 NR DENNISTON VA

Station #: N4510000

Hydrologic Unit Code: 03010104

Latitude: 36.58805

Longitude: -78.89814

Stream class: III NT

Agency: NCAMBNT

NC stream index:

Time period: 01/29/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	N/A				6	6.6	7	9.5	11.2	12.8	14.5
pH (SU)	31	0	N/A				6.3	6.9	7.1	7.3	7.5	7.7	7.9
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				101	133	189	234	321	355	377
Water Temperature (°C)	31	0	N/A				3	4.4	8.3	14	23.7	26.1	28.8
Other													
Hardness (mg/L)	14	0	N/A				41	46	60	82	96	110	110
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	11.2	33.3	69
Turbidity (NTU)	31	0	N/A				1.9	2.4	3.8	8.4	24	44	95

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	78	3	9.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: MAYO CRK AT SR 1501 NR BETHEL HILL

Station #: N4590000

Hydrologic Unit Code: 03010104

Latitude: 36.54021

Longitude: -78.87362

Stream class: C

Agency: NCAMBNT

NC stream index: 22-58-15-(3.5)

Time period: 01/29/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		5.7	6.6	7.4	9.6	11.4	11.6	13.2
	30	0	<5	0	0		5.7	6.6	7.4	9.6	11.4	11.6	13.2
pH (SU)	31	0	<6	0	0		6.4	7.1	7.2	7.4	7.5	7.7	7.7
	31	0	>9	0	0		6.4	7.1	7.2	7.4	7.5	7.7	7.7
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				119	122	151	282	343	350	353
Water Temperature (°C)	31	0	>32	0	0		5	6.9	9.3	15.4	23.8	27	29
Other													
Hardness (mg/L)	14	0	N/A				61	70	88	105	122	130	130
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	11.8	12
Turbidity (NTU)	31	5	>50	0	0		1	1	1.1	1.4	2	2.4	3.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
31	12.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NUTBUSH CRK AT SR 1317 NR HENDERSON

Station #: N5000000

Hydrologic Unit Code: 03010102

Latitude: 36.36914

Longitude: -78.40834

Stream class: C

Agency: NCAMBNT

NC stream index: 23-8-(1)

Time period: 01/28/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		5.3	7.1	7.5	9.2	11.5	12.5	13.7
	30	0	<5	0	0		5.3	7.1	7.5	9.2	11.5	12.5	13.7
pH (SU)	31	0	<6	0	0		6.4	6.7	7.3	7.5	7.8	7.9	8
	31	0	>9	0	0		6.4	6.7	7.3	7.5	7.8	7.9	8
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				54	242	342	456	588	688	785
Water Temperature (°C)	31	0	>32	0	0		4.8	6.5	8.6	14	20.7	23.5	25
Other													
Hardness (mg/L)	14	0	N/A				52	69	95	130	181	210	210
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.3	12	39.5	146
Turbidity (NTU)	31	1	>50	2	6.5		1	1.2	2	4	10	16.6	750
Nutrients (mg/L)													
NH3 as N	31	22	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.08
NO2 + NO3 as N	31	0	N/A				0.81	3.96	6.4	12	16	20.8	25
TKN as N	30	1	N/A				0.2	0.28	0.54	0.62	0.71	1.16	3.8
Total Phosphorus	30	0	N/A				0.07	0.09	0.17	0.34	0.55	0.93	1.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
31	270.4	7	22.6	57.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SMITH CRK AT US 1 NR PASCHALL

Station #: N6400000

Hydrologic Unit Code: 03010106

Latitude: 36.54087

Longitude: -78.19514

Stream class: C

Agency: NCAMBNT

NC stream index: 23-10

Time period: 01/28/2009 to 12/02/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	4	13.3	64.7	3	3.1	4.6	6	8.4	10.8	12.3
	30	0	<5	9	30	99.8	3	3.1	4.6	6	8.4	10.8	12.3
pH (SU)	31	0	<6	0	0		6.3	6.3	6.7	6.8	7	7.2	7.6
	31	0	>9	0	0		6.3	6.3	6.7	6.8	7	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				61	69	75	86	116	147	180
Water Temperature (°C)	31	0	>32	0	0		3.4	3.8	8.6	14.3	22.2	24.3	25.5
Other													
Hardness (mg/L)	14	0	N/A				17	18	20	28	39	64	69
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	12	15.8	20
Turbidity (NTU)	31	0	>50	3	9.7		3.5	3.6	6.5	9.6	28	65	120
Nutrients (mg/L)													
NH3 as N	31	19	N/A				0.02	0.02	0.02	0.02	0.03	0.09	0.48
NO2 + NO3 as N	31	27	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.28
TKN as N	31	0	N/A				0.29	0.3	0.38	0.48	0.62	0.89	1.2
Total Phosphorus	30	0	N/A				0.02	0.04	0.05	0.07	0.11	0.19	0.23

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	53.1	1	3.2	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROANOKE RIV AT NC 48 AT ROANOKE RAPIDS

Station #: N7300000

Hydrologic Unit Code: 03010107

Latitude: 36.48151

Longitude: -77.64526

Stream class: WS-IV CA

Agency: NCAMBNT

NC stream index: 23-(25.5)

Time period: 01/27/2009 to 12/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		4.2	5.2	6.5	9	11.8	12.5	13.1
	31	0	<5	2	6.5		4.2	5.2	6.5	9	11.8	12.5	13.1
pH (SU)	31	0	<6	0	0		6.7	6.9	7.1	7.3	7.5	7.7	8
	31	0	>9	0	0		6.7	6.9	7.1	7.3	7.5	7.7	8
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				27	94	105	110	116	123	139
Water Temperature (°C)	31	0	>32	0	0		3.8	5.8	9.3	15.6	26.1	28	29
Other													
Hardness (mg/L)	14	0	>100	0	0		35	35	36	37	37	39	40
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	7
Turbidity (NTU)	31	1	>50	0	0		1	1.7	2.2	3	5.5	11.8	31
Nutrients (mg/L)													
NH3 as N	31	19	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.04
NO2 + NO3 as N	31	3	>10	0	0		0.02	0.02	0.05	0.09	0.15	0.21	0.29
TKN as N	31	0	N/A				0.2	0.22	0.27	0.3	0.33	0.38	0.46
Total Phosphorus	31	7	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.06
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
31	8.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROANOKE RIV AT US 258 NR SCOTLAND NECK

Station #: N8200000

Hydrologic Unit Code: 03010107

Latitude: 36.20925

Longitude: -77.38387

Stream class: C

Agency: NCAMBNT

NC stream index: 23-(26)

Time period: 01/27/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		5.9	6.4	7.1	9.2	11.3	12.2	13
	31	0	<5	0	0		5.9	6.4	7.1	9.2	11.3	12.2	13
pH (SU)	31	0	<6	0	0		6.3	7	7.1	7.3	7.5	7.6	7.7
	31	0	>9	0	0		6.3	7	7.1	7.3	7.5	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				92	103	114	122	129	138	143
Water Temperature (°C)	31	0	>32	0	0		3.8	6.3	9.1	15.1	23.4	28.5	30.5
Other													
Hardness (mg/L)	14	0	N/A				35	35	36	38	40	42	43
TSS (mg/L)	20	2	N/A				6.2	8	11	12.5	20	56	96
Turbidity (NTU)	31	0	>50	0	0		5.1	6.7	8.2	10	14	29	40
Nutrients (mg/L)													
NH3 as N	30	13	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.05
NO2 + NO3 as N	30	0	N/A				0.07	0.08	0.12	0.16	0.19	0.28	0.31
TKN as N	30	0	N/A				0.22	0.24	0.3	0.33	0.4	0.44	0.95
Total Phosphorus	30	0	N/A				0.02	0.03	0.03	0.04	0.05	0.09	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
31	45.8	3	9.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: ROANOKE RIV AT US 13 AND US 17 AT WILLIAMSTON

Station #: N8550000

Hydrologic Unit Code: 03010107

Latitude: 35.85986

Longitude: -77.04009

Stream class: C

Agency: NCAMBNT

NC stream index: 23-(26)

Time period: 01/07/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	2	3.3		3.2	5.8	6.8	7.8	10.6	11.2	11.9
	60	0	<5	4	6.7		3.2	5.8	6.8	7.8	10.6	11.2	11.9
pH (SU)	59	0	<6	5	8.5		5.3	6	6.7	6.9	7	7.1	7.9
	59	0	>9	0	0		5.3	6	6.7	6.9	7	7.1	7.9
Salinity (ppt)	60	0	N/A				0.03	0.04	0.04	0.05	0.05	0.06	0.06
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				85	98	110	117	128	135	143
Water Temperature (°C)	60	0	>32	0	0		3.2	6.3	10.7	17.4	25.7	28.7	30.7
Other													
Hardness (mg/L)	14	0	N/A				31	32	35	37	38	40	41
TSS (mg/L)	20	2	N/A				6.2	7.3	12	16	21.5	25.9	29
Turbidity (NTU)	59	0	>50	0	0		6.8	8.7	12	16	19	22	38
Nutrients (mg/L)													
NH3 as N	60	41	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
NO2 + NO3 as N	60	0	N/A				0.08	0.12	0.15	0.18	0.26	0.28	0.33
TKN as N	59	0	N/A				0.25	0.28	0.32	0.37	0.41	0.5	0.63
Total Phosphorus	59	0	N/A				0.02	0.04	0.04	0.06	0.07	0.08	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	21.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CASHIE RIV AT SR 1219 NR LEWISTON

Station #: N8950000

Hydrologic Unit Code: 03010107

Latitude: 36.12376

Longitude: -77.12140

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 24-2-(1)

Time period: 01/07/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				0	0.9	1.6	3.5	6.4	10.2	12.1
pH (SU)	59	0	<4.3	1	1.7		4	5.1	5.5	5.7	6	6.5	7
	59	0	>9	0	0		4	5.1	5.5	5.7	6	6.5	7
Salinity (ppt)	60	0	N/A				0.01	0.02	0.03	0.04	0.04	0.08	0.31
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				56	70	76	96	113	175	612
Water Temperature (°C)	60	0	>32	0	0		0.1	4.2	9	15.1	22.8	24.7	27.2
Other													
Hardness (mg/L)	14	0	N/A				12	14	20	27	35	44	50
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	9.9	13.5	23.9	35
Turbidity (NTU)	59	0	>50	2	3.4		1.3	2.6	5	9.2	27	40	55
Nutrients (mg/L)													
NH3 as N	60	31	N/A				0.02	0.02	0.02	0.02	0.13	0.29	4
NO2 + NO3 as N	59	45	N/A				0.02	0.02	0.02	0.02	0.04	0.13	0.24
TKN as N	59	0	N/A				0.42	0.54	0.73	1.2	1.7	2.2	6
Total Phosphorus	59	0	N/A				0.03	0.06	0.12	0.3	0.44	0.74	1.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	72.4	5	8.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: ROANOKE RIV 1.3 MI UPS WELCH CRK NR PLYMOUTH

Station #: N9250000

Hydrologic Unit Code: 03010107

Latitude: 35.86767

Longitude: -76.78541

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 23-(53)

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	N/A				2	5.4	6.6	7.5	9.2	11.1	12.2
pH (SU)	53	0	<4.3	0	0		6.2	6.6	6.9	7	7.3	7.5	8.2
	53	0	>9	0	0		6.2	6.6	6.9	7	7.3	7.5	8.2
Salinity (ppt)	53	0	N/A				0.03	0.04	0.04	0.05	0.05	0.06	0.1
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				85	101	109	118	122	129	144
Water Temperature (°C)	53	0	>32	0	0		1.8	7.4	11	19.6	26.5	30.5	32
Other													
Chlorophyll a (ug/L)	50	0	>40	0	0		1	2	4	6	10	13	23
Hardness (mg/L)	13	0	N/A				31	31	34	36	38	41	41
TSS (mg/L)	19	9	N/A				6.2	6.2	6.2	7.8	12	13	15
Turbidity (NTU)	53	0	>50	0	0		4.4	5.2	7.1	8.7	12.5	16.6	21
Nutrients (mg/L)													
NH3 as N	53	32	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.09
NO2 + NO3 as N	53	0	N/A				0.07	0.09	0.14	0.18	0.21	0.25	0.32
TKN as N	53	0	N/A				0.25	0.28	0.32	0.37	0.41	0.47	0.67
Total Phosphorus	53	0	N/A				0.03	0.04	0.04	0.04	0.05	0.06	0.07
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
53	10.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ROANOKE RIV AT NC 45 AT SANS SOUCI

Station #: N9600000

Hydrologic Unit Code: 03010107

Latitude: 35.91469

Longitude: -76.72252

Stream class: C Sw

Agency: NCAMBNT

NC stream index: 23-(53)

Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	54	0	N/A				2.1	5.2	6.3	7.3	9.5	12.1
pH (SU)	54	0	<4.3	0	0		6.2	6.9	7	7.2	7.4	8.7
	54	0	>9	0	0		6.2	6.9	7	7.2	7.4	8.7
Salinity (ppt)	54	0	N/A				0.04	0.04	0.05	0.06	0.08	0.23
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				95	112	123	142	176	463
Water Temperature (°C)	54	0	>32	1	1.9		2	7.4	11.5	20	26.9	33
Other												
Chlorophyll a (ug/L)	53	0	>40	0	0		1	2	3	6	12	26
Hardness (mg/L)	13	0	N/A				33	34	37	39	40	53
TSS (mg/L)	19	9	N/A				6.2	6.2	6.2	8	10	13
Turbidity (NTU)	54	0	>50	0	0		3.5	5.2	7.4	9.5	14	20
Nutrients (mg/L)												
NH3 as N	54	16	N/A				0.02	0.02	0.02	0.03	0.06	0.12
NO2 + NO3 as N	54	0	N/A				0.05	0.1	0.12	0.16	0.2	0.27
TKN as N	54	0	N/A				0.3	0.32	0.36	0.42	0.48	0.68
Total Phosphorus	54	0	N/A				0.04	0.04	0.05	0.06	0.06	0.08
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
54	12.6	1	1.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: ALBEMARLE SOUND AT BATCHELOR BAY NR BLACK WALNUT
Station #: N9700000 **Hydrologic Unit Code:** 03010205
Latitude: 35.95327 **Longitude:** -76.67603 **Stream class:** SB
Agency: NCAMBNT **NC stream index:** 30
Time period: 01/15/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	0	0		5.5	7	7.8	8.6	10.5	11.5	13.1
pH (SU)	54	0	<6.8	3	5.6		6.4	7	7.2	7.5	7.7	8	8.6
Salinity (ppt)	54	0	>8.5	1	1.9		6.4	7	7.2	7.5	7.7	8	8.6
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				0.03	0.04	0.06	0.23	0.51	1.54	2.44
Water Temperature (°C)	54	0	>32	0	0		1.9	7.1	10.3	19.4	26.5	29.6	30.3
Other													
Chlorophyll a (ug/L)	53	2	>40	0	0		1	2	3	6	12	15	37
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	8.1	15.6	24
Turbidity (NTU)	54	0	>25	2	3.7		2.4	3.1	4.4	6.8	10	17	30
Nutrients (mg/L)													
NH3 as N	54	31	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.15
NO2 + NO3 as N	54	5	N/A				0.02	0.02	0.07	0.12	0.16	0.19	0.25
TKN as N	54	0	N/A				0.27	0.36	0.41	0.45	0.51	0.56	0.89
Total Phosphorus	54	0	N/A				0.02	0.03	0.04	0.04	0.05	0.06	0.11
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
54	4.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Savannah



Figure SAV-1. Savannah River basin ambient monitoring station locations, 2009-2013.

Table SAV-1. AMS monitoring stations in the Savannah River basin, 2009-2013.

Station	Location	Latitude	Longitude	Stream Class
Savannah River Basin HUC 03060101: Seneca River				
H6000000	Horsepasture River at NC 281 near Union	35.3291	-83.8098	C Tr

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: HORSEPASTURE RIV AT NC 281 NR UNION

Station #: H6000000

Hydrologic Unit Code: 03060101

Latitude: 35.09222

Longitude: -82.97642

Stream class: C Tr +

Agency: NCAMBNT

NC stream index: 4-13-(0.5)

Time period: 01/22/2009 to 12/04/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	19	0	<6	0	0		7.7	8.1	9.1	10.3	11.2	12.4	13.3
pH (SU)	18	0	<6	2	11.1	45	5.6	5.8	6.1	6.5	6.8	7.1	7.1
	18	0	>9	0	0		5.6	5.8	6.1	6.5	6.8	7.1	7.1
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				17	17	18	20	24	26	33
Water Temperature (°C)	19	0	>20	3	15.8	70.5	3.3	4	7.7	10.3	17.1	20.5	21.1
	19	0	>29	0	0		3.3	4	7.7	10.3	17.1	20.5	21.1
Other													
Hardness (mg/L)	14	0	N/A				3	3	5	5	5	7	7
TSS (mg/L)	22	19	N/A				6.2	6.2	6.2	6.2	6.2	7.3	23
Turbidity (NTU)	61	5	>10	1	1.6		1	1	1.3	1.8	3.1	4	12
Nutrients (mg/L)													
NH3 as N	59	55	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	59	0	N/A				0.03	0.04	0.05	0.06	0.07	0.08	0.27
TKN as N	59	42	N/A				0.2	0.2	0.2	0.2	0.2	0.25	0.32
Total Phosphorus	59	32	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	14.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Tar-Pamlico

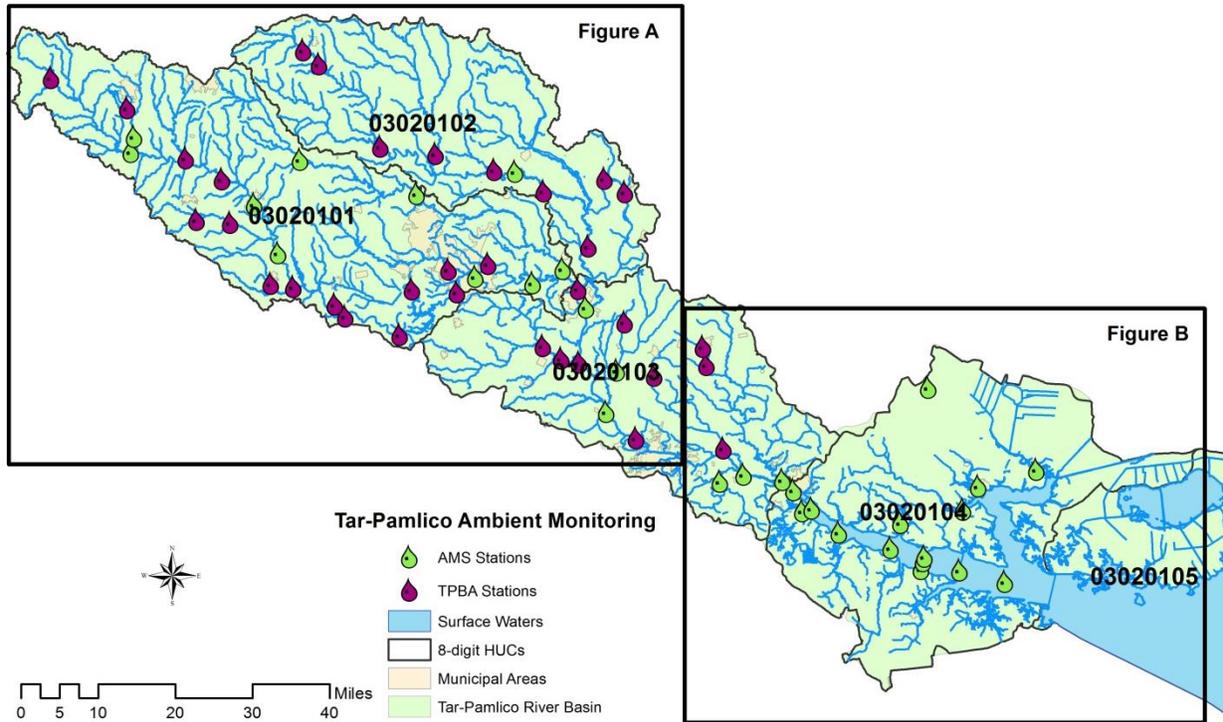
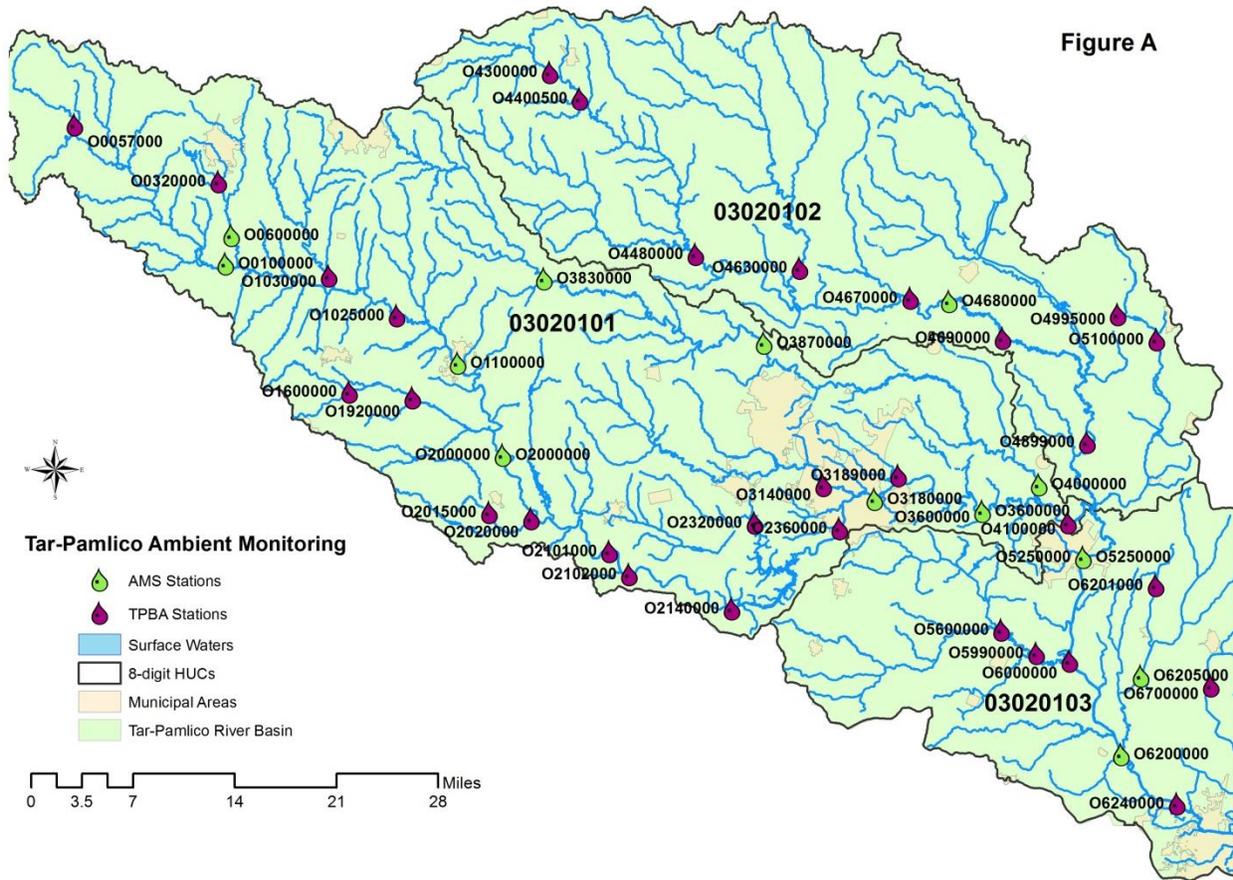
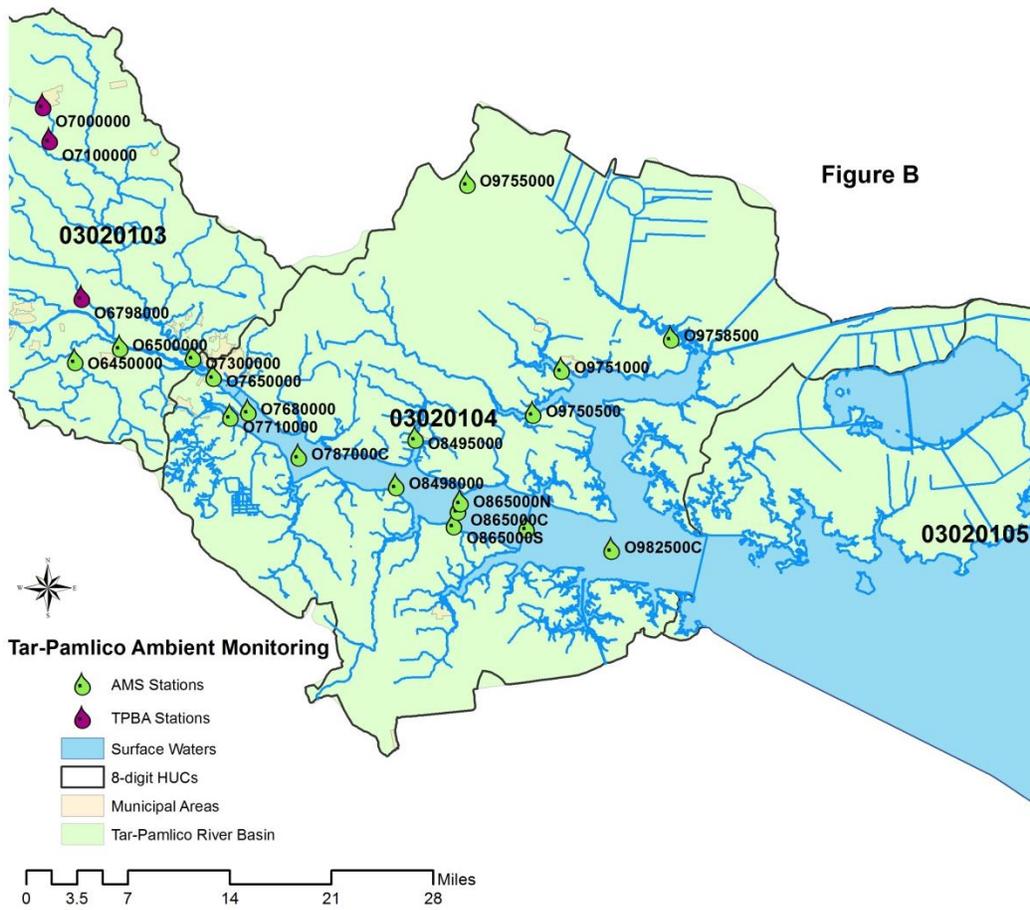


Figure TAR-1. Tar-Pamlico River basin ambient monitoring station locations, 2009-2013 (see details below).

Figure A





NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table TAR-1. Ambient monitoring stations in the Tar-Pamlico River basin, 2009-2013.

Station ID	Agency	Location	Stream Class	Latitude	Longitude
HUC 03020101 : Tar River Headwaters					
O0057000	TPBA	Tar River At US 158 Near Berea	WS-IV NSW	36.3341	-78.7680
O0100000	NCAMBNT	Tar River At NC 96 Near Tar River	WS-V NSW	36.1947	-78.5829
O0310000	TPBA	Foundry Branch At SR 1649 New Commerce Dr At Oxford	C NSW	36.2921	-78.5829
O0320000	TPBA	Fishing Crk Upstream SR 1607 Knotts Grove Rd Near Oxford	C NSW	36.2770	-78.5911
O0600000	NCAMBNT	Fishing Crk At SR 1643 Near Clay	C NSW	36.2232	-78.5757
O1025000	TPBA	Tar River At SR 1003 Sims Bridge Rd Near Louisburg	WS-IV NSW	36.1422	-78.3722
O1030000	TPBA	Tabbs Crk At SR 1100 Egypt Mountain Rd Near Kittrell	C NSW	36.1823	-78.4556
O1100000	NCAMBNT	Tar River At US 401 At Louisburg	WS-V NSW	36.0944	-78.2977
O1600000	TPBA	Cedar Crk At SR 1116 Cedar Creek Rd Near Franklinton	C NSW	36.0662	-78.4313
O1920000	TPBA	Cedar Crk At SR 1109 Timberlake Rd Near Louisburg	C NSW	36.0602	-78.3537
O2000000	Collocated	Tar River At SR 1001 Near Bunn	WS-V NSW	36.0023	-78.2433
O2015000	TPBA	Crooked Crk At SR 1719 Bunn Elementary School Rd Near Bunn	C NSW	35.9450	-78.2605
O2020000	TPBA	Crooked Crk At NC 98 Near Bunn	C NSW	35.9386	-78.2089
O2101000	TPBA	Tar River At SR 1145 Old Spring Hope Rd Near Spring Hope	WS-V NSW	35.9051	-78.1132
O2102000	TPBA	Tar River At NC 581 Near Stanhope	WS-V NSW	35.8821	-78.0893
O2140000	TPBA	Tar River At SR 1981 Tar River Church Rd Near Cliftonville	WS-IV NSW CA	35.8466	-77.9639
O2320000	TPBA	Sapony Crk At SR 1704 Batchelor Dr Near Nashville	WS-IV NSW	35.9320	-77.9348
O2360000	TPBA	Tar River At US 301 Byp At Rocky Mount	WS-IV NSW	35.9257	-77.8307
O3140000	TPBA	Stony Crk At Winstead Ave Near Little Easonburg	C NSW	35.9688	-77.8497
O3180000	NCAMBNT	Tar River At NC 97 At Rocky Mount	C NSW	35.9544	-77.7874
O3189000	TPBA	Tar River At SR 1250 Springfield Rd At Rocky Mount	C NSW	35.9779	-77.7577
O3600000	Collocated	Tar River At SR 1252 Near Hartsease	WS-IV NSW	35.9409	-77.6551
O3830000	NCAMBNT	Sandy Crk At SR 1432 Near Gupton	B NSW +	36.1779	-78.1909
O3870000	NCAMBNT	Swift Crk At SR 1310 At Hilliardston	C ORW NSW	36.1118	-77.9212
O4000000	NCAMBNT	Swift Crk At SR 1253 Near Leggett	WS-IV NSW	35.9668	-77.5854
O4100000	TPBA	Tar River At NC 33 Near Tarboro	WS-IV NSW	35.9284	-77.5498
HUC 03020102 : Fishing Creek					
O4300000	TPBA	Fishing Crk At SR 1001 Dr King Blvd Near Warrenton	C NSW	36.3840	-78.1814
O4400500	TPBA	Fishing Crk At SR 1600 Baltimore Rd Near Warrenton	C NSW	36.3574	-78.1449
O4403000	TPBA	Fishing Crk At SR 1609 Powells Mill Rd Near Warrenton	C NSW	36.3393	-78.1288
O4480000	TPBA	Fishing Crk At NC 561 Near Wood	WS-V NSW	36.2011	-78.0040
O4630000	TPBA	Little Fishing Crk At NC 481 Near White Oak	C NSW	36.1862	-77.8760
O4670000	TPBA	Fishing Crk At SR 1222 Bellamy Mill Rd Near Enfield	WS-IV NSW	36.1549	-77.7404
O4680000	NCAMBNT	Fishing Crk At US 301 Near Enfield	C NSW	36.1509	-77.6927
O4690000	TPBA	Fishing Crk At SR 1109 Etheridge Farm Rd Near Enfield	C NSW	36.1134	-77.6270
O4899000	TPBA	Fishing Crk At NC 97 Near Lawrence	WS-IV NSW	36.0083	-77.5252
O4995000	TPBA	Deep Crk At SR 1104 Near Scotland Neck	C NSW	36.1355	-77.4852
O5100000	TPBA	Deep Crk At US 258 Near Scotland Neck	C NSW	36.1096	-77.4383

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table TAR-1. Ambient monitoring stations in the Tar-Pamlico River basin, 2009-2013 (continued).

Station ID	Agency	Location	Stream Class	Latitude	Longitude
HUC 03020103 : Tar River					
O5250000	Collocated	Tar River At NC 33 And US 64 Bus At Tarboro	C NSW	35.8935	-77.5323
O5600000	TPBA	Town Crk At NC 111 SR 1202 Near Wiggins Crossroads	C NSW	35.8224	-77.6339
O5990000	TPBA	Town Crk At US 258 Near Cobbs Crossroads	C NSW	35.7983	-77.5914
O6000000	TPBA	Tar River At NC 42 At Old Sparta	C NSW	35.7903	-77.5507
O6200000	NCAMBNT	Tar River At NC 222 Near Falkland	WS-IV NSW	35.6962	-77.4895
O6201000	TPBA	Ballahack Canal At SR 1526 Near Conetoe	C NSW	35.8645	-77.4438
O6205000	NCAMBNT	Conetoe Crk At SR 1409 Near Bethel	C NSW	35.7743	-77.4638
O6240000	TPBA	Tar River At US 264 Byp Near Greenville	WS-IV NSW	35.6460	-77.4221
O6450000	NCAMBNT	Chicod Crk At SR 1760 Near Simpson	C NSW	35.5615	-77.2305
O6500000	NCAMBNT	Tar River At SR 1565 Near Grimesland	B NSW	35.5740	-77.1754
O6700000	TPBA	Grindle Crk At SR 1427 Near Bethel	C NSW	35.7632	-77.3781
O6798000	TPBA	Grindle Crk At US 264 At Pactolus	C NSW	35.6243	-77.2212
O7000000	TPBA	Flat Swamp At SR 1159 Third St At Robersonville	C Sw NSW	35.8160	-77.2642
O7100000	TPBA	Flat Swamp At SR 1157 Near Robersonville	C Sw NSW	35.7818	-77.2568
O7300000	NCAMBNT	Tranters Crk At SR 1403 Near Washington	C Sw NSW	35.5630	-77.0864
HUC 03020104 : Pamlico River					
O7650000	NCAMBNT	Pamlico River At US 17 At Washington	SC NSW	35.5432	-77.0615
O7680000	NCAMBNT	Pamlico River At CM 16 Near Whichard Beach	SB NSW	35.5079	-77.0203
O7710000	NCAMBNT	Chocowinity Bay Above Silas Crk Near Whichard Beach	SC NSW	35.5031	-77.0423
O787000C	NCAMBNT	Pamlico River At Mouth Of Broad Crk Near Bunyon Mid Chan	SB NSW	35.4618	-76.9596
O787000N	NCAMBNT	Pamlico River At Mouth Of Broad Crk Near Bunyon N Shore	SB NSW	35.4809	-76.9564
O787000S	NCAMBNT	Pamlico River At Mouth Of Broad Crk Near Bunyon S Shore	SB NSW	35.4453	-76.9622
O8495000	NCAMBNT	Bath Crk At NC 92 Near Bath	SB NSW	35.4775	-76.8169
O8498000	NCAMBNT	Pamlico River At CM 5 Near Core Point	SB NSW	35.4305	-76.8414
O865000C	NCAMBNT	Pamlico River At CM 4 Near Gum Point Mid Channel	SB NSW	35.4047	-76.7671
O865000N	NCAMBNT	Pamlico River At CM 4 Near Gum Point N Shore	SB NSW	35.4129	-76.7634
O865000S	NCAMBNT	Pamlico River At CM 4 Near Gum Point S Shore	SB NSW	35.3899	-76.7723
O9059000	NCAMBNT	Pamlico River At Hickory Pt Near South Crk	SA HQW NSW	35.3854	-76.6837
O9750500	NCAMBNT	Pungo Crk At NC 92 At Sidney Crossroads	SC NSW	35.4994	-76.6724
O9751000	NCAMBNT	Pantego Crk At NC 92 At Belhaven	SC NSW	35.5425	-76.6363
O9755000	NCAMBNT	Van Swamp At NC 32 Near Hoke	C Sw NSW	35.7304	-76.7465
O9757230	NCPST	Canal A At Allen Rd And South Lake Rd At Pungo NWR	C Sw NSW	35.6884	-76.5253
O9757250	NCPST	Canal A Beside Allen Rd NW Of Rose Acres Farms Near Ponzer	C Sw NSW	35.6519	-76.5339
O9757270	NCPST	Canal A Beside Allen Rd SW Of Rose Acres Farms Near Ponzer	C Sw NSW	35.6346	-76.5379
O9757350	NCPST	Canal B Beside Boerma Rd NE Of Rose Acres Farms Near Ponzer	C Sw NSW	35.6498	-76.5162
O9757359	NCPST	Unnamed Canal to Canal B At Rose Acres Farms Near Ponzer	C Sw NSW	35.6408	-76.5185
O9757370	NCPST	Canal B Beside Boerma Rd SE Of Rose Acres Farms Near Ponzer	C Sw NSW	35.6319	-76.5204
O9757395	NCPST	Canal B At NC 45 Near Ponzer	C Sw NSW	35.6004	-76.5292
O9757540	NCPST	Canal D Beside DeHoog Rd At Pungo NWR	C Sw NSW	35.6568	-76.4784
O9757580	NCPST	Canal D Beside DeHoog Rd Near Ponzer	C Sw NSW	35.6064	-76.4901
O9758500	NCAMBNT	Pungo River At US 264 Near Ponzer	SB NSW	35.5714	-76.5015
O982500C	NCAMBNT	Pamlico River Btwn Mouth Pungo River & Goose Crk Mid Chan	SA HQW NSW	35.3619	-76.5806
O982500N	NCAMBNT	Pamlico River Btwn Mouth Pungo River & Goose Crk N Shore	SA HQW NSW	35.3774	-76.5596
O982500S	NCAMBNT	Pamlico River Btwn Mouth Pungo River & Goose Crk S Shore	SA HQW NSW	35.3402	-76.5958
HUC 03020105 : Pamlico Sound					
No Active Stations					

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

Location: TAR RIV AT US 158 NR BERE A

Station #: O0057000

Latitude: 36.33412

Agency: TPBA

Longitude: -78.76803

Hydrologic Unit Code: 03020101

Stream class: WS-IV NSW

NC stream index: 28-(1)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<4	3	3.8		2	4.8	6.4	7.6	10.2	11.8	17
	78	0	<5	9	11.5	62.1	2	4.8	6.4	7.6	10.2	11.8	17
pH (SU)	78	0	<6	11	14.1	84.6	2.2	5.2	6.4	6.8	7	7.2	8.9
	78	0	>9	0	0		2.2	5.2	6.4	6.8	7	7.2	8.9
Spec. conductance (umhos/cm at 25°C)	76	3	N/A				50	58	67	81	90	100	161
Water Temperature (°C)	78	0	>32	0	0		0.6	5.8	10.6	18.9	22.4	24.5	25.9
Other													
TSS (mg/L)	56	15	N/A				1.7	3	3.1	4	8.7	20	305
Turbidity (NTU)	56	0	>50	3	5.4		2.4	4.6	6.8	11.5	18	34.8	550
Nutrients (mg/L)													
NH3 as N	56	6	N/A				0.01	0.02	0.03	0.04	0.07	0.14	0.24
NO2 + NO3 as N	56	4	>10	0	0		0.01	0.02	0.05	0.1	0.14	0.3	0.51
TKN as N	56	2	N/A				0.2	0.28	0.41	0.63	0.87	1.17	2.06
Total Phosphorus	53	13	N/A				0.02	0.02	0.02	0.04	0.05	0.09	0.23
Metals (ug/L)													
Aluminum, total (Al)	5	0	N/A				180	180	218	330	1144	1610	1610
Arsenic, total (As)	5	5	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	5	5	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	5	5	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	5	4	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	5	0	>1000	5	100		1107	1107	1210	1490	2246	2919	2919
Lead, total (Pb)	5	5	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	5	0	>200	0	0		28	28	29	32	62	69	69
Mercury, total (Hg)	5	5	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	5	5	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	5	4	>50	0	0		10	10	10	10	12	13	13

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
56	73.8	7	12.5

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 96 NR TAR RIVER

Station #: O0100000

Latitude: 36.19472

Agency: NCAMBNT

Longitude: -78.58292

Hydrologic Unit Code: 03020101

Stream class: WS-V NSW

NC stream index: 28-(5.7)

Time period: 01/29/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		4.9	5.1	6.1	6.8	10.2	11.9	13
	30	0	<5	1	3.3		4.9	5.1	6.1	6.8	10.2	11.9	13
pH (SU)	31	0	<6	0	0		6.1	6.5	6.7	7	7.2	7.5	7.8
	31	0	>9	0	0		6.1	6.5	6.7	7	7.2	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				51	56	76	83	95	108	236
Water Temperature (°C)	31	0	>32	0	0		3.7	4.6	9.1	14	23.4	25.9	30.3
Other													
Hardness (mg/L)	14	0	>100	0	0		25	26	27	30	35	46	49
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	14.5	24.6	53
Turbidity (NTU)	31	0	>50	2	6.5		2.4	3.5	7.5	15	30	48	90
Nutrients (mg/L)													
NH3 as N	31	14	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.13
NO2 + NO3 as N	31	7	>10	0	0		0.02	0.02	0.02	0.08	0.17	0.24	0.36
TKN as N	31	0	N/A				0.26	0.32	0.4	0.56	0.64	0.87	1
Total Phosphorus	31	0	N/A				0.02	0.03	0.04	0.06	0.09	0.13	0.16

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	84	6	19.4	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FOUNDRY BRANCH AT SR 1649 NEW COMMERCE DR AT OXFORD
Station #: O0310000 **Hydrologic Unit Code:** 03020101
Latitude: 36.29210 **Longitude:** -78.58294 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-11-2
Time period: 05/14/2009 to 01/29/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	13	0	<4	2	15.4	62.1	1.8	2.1	4.8	7.4	8.7	10.9	11.7
	13	0	<5	3	23.1	86.6	1.8	2.1	4.8	7.4	8.7	10.9	11.7
pH (SU)	13	0	<6	0	0		6.4	6.4	6.8	7	7.1	7.4	7.4
	13	0	>9	0	0		6.4	6.4	6.8	7	7.1	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	13	0	N/A				115	119	144	158	278	335	355
Water Temperature (°C)	13	0	>32	0	0		5.5	6	13.7	21	22.1	25.3	27.2
Other													
Turbidity (NTU)	6	0	>50	0	0		4.6	4.6	15.4	26	40.5	45	45
Nutrients (mg/L)													
NH3 as N	6	1	N/A				0.01	0.01	0.02	0.09	0.18	0.24	0.24
NO2 + NO3 as N	6	0	N/A				0.06	0.06	0.23	0.29	0.45	0.51	0.51
TKN as N	6	0	N/A				0.43	0.43	0.72	0.97	1.15	1.18	1.18
Total Phosphorus	6	0	N/A				0.05	0.05	0.07	0.11	0.17	0.23	0.23

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
6	281.2	3	50

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK UPS SR 1607 KNOTTS GROVE RD NR OXFORD
Station #: O0320000 **Hydrologic Unit Code:** 03020101
Latitude: 36.27703 **Longitude:** -78.59113 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-11

Time period: 02/03/2010 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	67	0	<4	0	0		6.1	6.4	6.9	7.7	9.8	12.2	13.7
	67	0	<5	0	0		6.1	6.4	6.9	7.7	9.8	12.2	13.7
pH (SU)	67	0	<6	2	3		5.1	6.9	7.1	7.3	7.6	7.8	8.6
	67	0	>9	0	0		5.1	6.9	7.1	7.3	7.6	7.8	8.6
Spec. conductance (umhos/cm at 25°C)	67	0	N/A				87	128	180	230	320	554	684
Water Temperature (°C)	67	0	>32	0	0		0.8	6.3	11.4	19.1	22.5	24	26.4
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	47	0	>50	3	6.4		1.7	2.2	3.7	6.3	18	50	280
Nutrients (mg/L)													
NH3 as N	47	7	N/A				0.01	0.02	0.03	0.05	0.08	0.12	0.62
NO2 + NO3 as N	47	0	N/A				0.07	0.15	0.24	0.46	0.72	3.34	4.28
TKN as N	47	0	N/A				0.24	0.38	0.52	0.81	1.05	1.43	2.86
Total Phosphorus	42	1	N/A				0.02	0.04	0.06	0.09	0.17	0.38	0.74
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
47	113.1	11	23.4	66.6

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT SR 1643 NR CLAY

Station #: O0600000

Latitude: 36.22317

Agency: NCAMBNT

Longitude: -78.57568

Hydrologic Unit Code: 03020101

Stream class: C NSW

NC stream index: 28-11

Time period: 01/29/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		5.5	6.5	7.3	8.9	11	12.4	14.3
	31	0	<5	0	0		5.5	6.5	7.3	8.9	11	12.4	14.3
pH (SU)	32	0	<6	0	0		6.4	6.8	7.2	7.4	7.7	7.9	8.2
	32	0	>9	0	0		6.4	6.8	7.2	7.4	7.7	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				79	95	129	170	336	459	667
Water Temperature (°C)	32	0	>32	0	0		3.4	4.4	9.1	13.6	21.7	25.3	27.9
Other													
Hardness (mg/L)	15	0	N/A				28	33	42	56	59	64	67
TSS (mg/L)	21	13	N/A				6.2	6.2	6.2	6.2	11.5	44.6	54
Turbidity (NTU)	32	0	>50	4	12.5	60	1	2.4	3.8	8	25	77	120
Nutrients (mg/L)													
NH3 as N	32	14	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.62
NO2 + NO3 as N	32	0	N/A				0.05	0.17	0.31	0.44	0.74	1.4	1.6
TKN as N	32	0	N/A				0.38	0.41	0.47	0.59	0.75	0.91	1.2
Total Phosphorus	32	0	N/A				0.04	0.04	0.07	0.09	0.13	0.15	0.23
Metals (ug/L)													
Arsenic, dissolved (As)	28	28	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	1	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	28	3	>7	0	0		2	2	2	3	3	4	4
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	0	N/A				13	14	22	34	48	66	74
Nickel, dissolved (Ni)	28	25	>88	0	0		2	2	2	2	4	10	10
Zinc, dissolved (Zn)	25	6	>50	4	16	76.3	10	10	10	17	44	63	75

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
32	126.1	7	21.9	53.5

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NC DENR, Division of Water Resources
 Basinwide Assessment Report

Location: FISHING CRK AT SR 1643 NR CLAY

Station #: O0600000

Latitude: 36.22317

Agency: NCS PST

Longitude: -78.57568

Hydrologic Unit Code: 03020101

Stream class: C NSW

NC stream index: 28-11

Time period: 10/11/2010 to 10/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Other													
Hardness (mg/L)	4	0	N/A				57	57	57	58	60	60	60
Metals (ug/L)													
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	4	0	>7	0	0		4	4	4	4	5	5	5
Lead, dissolved (Pb)	4	4	>25	0	0		10	10	10	10	10	10	10
Manganese, dissolved (Mn)	4	0	N/A				29	29	30	34	38	39	39
Nickel, dissolved (Ni)	4	4	>88	0	0		10	10	10	10	10	10	10
Zinc, dissolved (Zn)	4	0	>50	4	100		62	62	64	80	97	100	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1003 SIMS BRIDGE RD NR LOUISBURG
Station #: O1025000 **Hydrologic Unit Code:** 03020101
Latitude: 36.14222 **Longitude:** -78.37218 **Stream class:** WS-IV NSW
Agency: TPBA **NC stream index:** 28-(15.5)
Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	73	0	<4	0	0		6	6.5	7	8.1	10	12.1	14.9
	73	0	<5	0	0		6	6.5	7	8.1	10	12.1	14.9
pH (SU)	73	0	<6	1	1.4		5.4	6.5	6.8	6.9	7.1	7.3	7.8
	73	0	>9	0	0		5.4	6.5	6.8	6.9	7.1	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	73	1	N/A				50	78	90	106	120	130	175
Water Temperature (°C)	73	0	>32	0	0		0.5	5.5	10.6	18.9	24.1	26.2	28.6
Other													
Chlorophyll a (ug/L)	0	0	>40	0									
TSS (mg/L)	52	10	N/A				3.1	3.1	3.5	5.8	16	26.2	77
Turbidity (NTU)	53	0	>50	4	7.5		4.5	5.2	6.7	12	25	33	85
Nutrients (mg/L)													
NH3 as N	53	8	N/A				0.01	0.02	0.03	0.06	0.08	0.13	0.35
NO2 + NO3 as N	53	4	>10	0	0		0.01	0.02	0.06	0.09	0.15	0.2	0.34
TKN as N	53	1	N/A				0.2	0.33	0.43	0.53	0.76	1.05	1.36
Total Phosphorus	48	3	N/A				0.02	0.02	0.04	0.06	0.08	0.12	0.21
Metals (ug/L)													
Aluminum, total (Al)	6	0	N/A				253	253	254	384	1222	2172	2172
Arsenic, total (As)	6	6	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	6	6	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	6	6	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	6	3	>7	0	0		2	2	2	2	3	3	3
Iron, total (Fe)	6	0	>1000	6	100		1113	1113	1404	1581	2484	4385	4385
Lead, total (Pb)	6	6	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	6	0	>200	1	16.7		62	62	65	83	196	207	207
Mercury, total (Hg)	6	6	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	6	6	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	6	5	>50	0	0		10	10	10	10	11	13	13

Fecal Coliform Screening(#/100mL)
results: 53 **Geomean:** 96.1 **# > 400:** 6 **% > 400: %Conf:** 11.3

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TABBS CRK AT SR 1100 EGYPT MOUNTAIN RD NR KITTRELL
Station #: O1030000 **Hydrologic Unit Code:** 03020101
Latitude: 36.18229 **Longitude:** -78.45562 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-17-(0.5)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	8	10		1.5	3.9	5.4	6.9	9	11.2	14.3
	80	0	<5	17	21.2	99.8	1.5	3.9	5.4	6.9	9	11.2	14.3
pH (SU)	80	0	<6	1	1.2		5.7	6.6	6.7	6.9	7.1	7.2	7.9
	80	0	>9	0	0		5.7	6.6	6.7	6.9	7.1	7.2	7.9
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				52	88	105	118	128	141	183
Water Temperature (°C)	80	0	>32	0	0		0.4	6.2	10.9	19.8	22.9	24.5	26.2

Other													
TSS (mg/L)	55	6	N/A				1.3	3.1	5.2	8.6	21	36.4	57
Turbidity (NTU)	55	0	>50	4	7.3		6.2	6.9	8.7	13	25	47	70

Nutrients (mg/L)													
NH3 as N	55	4	N/A				0.01	0.02	0.04	0.07	0.11	0.16	0.24
NO2 + NO3 as N	55	4	N/A				0.01	0.02	0.05	0.08	0.13	0.19	0.4
TKN as N	55	2	N/A				0.2	0.34	0.45	0.58	0.86	1.15	2.55
Total Phosphorus	50	6	N/A				0.02	0.02	0.04	0.06	0.09	0.12	0.21

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
55	91.7	7	12.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT US 401 AT LOUISBURG
Station #: O1100000
Latitude: 36.09438 **Longitude:** -78.29766
Agency: NCAMBNT

Hydrologic Unit Code: 03020101
Stream class: WS-V NSW
NC stream index: 28-(24.7)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		5.6	6.2	6.7	8.7	11.1	11.9	12.3
	31	0	<5	0	0		5.6	6.2	6.7	8.7	11.1	11.9	12.3
pH (SU)	31	0	<6	0	0		6.4	6.6	6.9	7.1	7.2	7.4	7.6
	31	0	>9	0	0		6.4	6.6	6.9	7.1	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				63	69	84	101	110	120	151
Water Temperature (°C)	31	0	>32	0	0		4.3	5	8.5	13.7	23.7	25.9	29.9
Other													
Hardness (mg/L)	14	0	>100	0	0		24	24	29	32	33	35	35
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	9.1	14.8	31.9	240
Turbidity (NTU)	31	0	>50	4	12.9	62.3	3.8	6.9	8.7	14	25	102	200

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	112.3	4	12.9	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CEDAR CRK AT SR 1116 CEDAR CREEK RD NR FRANKLINTON
Station #: O1600000 **Hydrologic Unit Code:** 03020101
Latitude: 36.06615 **Longitude:** -78.43130 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-29-(2)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	77	0	<4	0	0		5.8	6.7	7	7.6	9.8	11.3	14
	77	0	<5	0	0		5.8	6.7	7	7.6	9.8	11.3	14
pH (SU)	77	0	<6	0	0		6.2	6.6	6.8	7	7.2	7.4	7.6
	77	0	>9	0	0		6.2	6.6	6.8	7	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				52	72	79	84	90	93	120
Water Temperature (°C)	77	0	>32	0	0		2.4	7.3	11.6	21.2	24.9	25.9	28.7
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	52	0	>50	1	1.9		5.3	6.4	8.2	10.5	15.8	28	60
Nutrients (mg/L)													
NH3 as N	52	2	N/A				0.01	0.03	0.05	0.08	0.13	0.22	1.27
NO2 + NO3 as N	52	0	N/A				0.05	0.07	0.11	0.15	0.21	0.25	0.5
TKN as N	52	1	N/A				0.2	0.31	0.44	0.54	0.68	1.02	1.69
Total Phosphorus	50	7	N/A				0.01	0.02	0.02	0.04	0.07	0.09	0.18

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
52	71.8	1	1.9	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CEDAR CRK AT SR 1109 TIMBERLAKE RD NR LOUISBURG
Station #: O1920000 **Hydrologic Unit Code:** 03020101
Latitude: 36.06024 **Longitude:** -78.35373 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-29-(2)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	75	0	<4	0	0		5.3	6.7	7.1	7.7	9.6	11.2	14.2
	75	0	<5	0	0		5.3	6.7	7.1	7.7	9.6	11.2	14.2
pH (SU)	75	0	<6	0	0		6.4	6.8	7	7.1	7.4	7.5	7.9
	75	0	>9	0	0		6.4	6.8	7	7.1	7.4	7.5	7.9
Spec. conductance (umhos/cm at 25°C)	75	0	N/A				78	157	200	262	390	446	813
Water Temperature (°C)	75	0	>32	0	0		2	7	11.8	20.8	24	26.3	27.9
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	50	0	>50	2	4		7.1	9.7	12	16.5	23.5	39.7	210
Nutrients (mg/L)													
NH3 as N	50	3	N/A				0.01	0.03	0.05	0.08	0.1	0.15	0.19
NO2 + NO3 as N	50	0	N/A				0.06	0.25	0.36	0.46	0.62	0.99	1.63
TKN as N	50	2	N/A				0.2	0.35	0.5	0.73	0.92	1.26	1.77
Total Phosphorus	47	2	N/A				0.02	0.03	0.05	0.07	0.1	0.13	0.39
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	116.8	6	12	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1001 NR BUNN
Station #: O2000000
Latitude: 36.00228 **Longitude:** -78.24334
Agency: NCAMBNT

Hydrologic Unit Code: 03020101
Stream class: WS-V NSW
NC stream index: 28-(24.7)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		4.1	5.4	6	7.9	11.1	11.7	12.1
	30	0	<5	1	3.3		4.1	5.4	6	7.9	11.1	11.7	12.1
pH (SU)	30	0	<6	0	0		6.5	6.6	6.9	7.1	7.1	7.4	7.6
	30	0	>9	0	0		6.5	6.6	6.9	7.1	7.1	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				55	69	92	109	130	161	185
Water Temperature (°C)	30	0	>32	0	0		4.4	5.4	8.8	14.3	24	26	29
Other													
Hardness (mg/L)	14	0	>100	0	0		25	26	29	30	32	35	35
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	10	16.8	42.5	511
Turbidity (NTU)	30	0	>50	3	10		6.8	7.7	8.7	13.5	24.8	76.5	360

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
30	104.9	2	6.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1001 NR BUNN
Station #: O2000000
Latitude: 36.00228 **Longitude:** -78.24334
Agency: TPBA

Hydrologic Unit Code: 03020101
Stream class: WS-V NSW
NC stream index: 28-(24.7)

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4	5.1	5.6	6.6	9.1	11.3	14.9
	85	0	<5	5	5.9		4	5.1	5.6	6.6	9.1	11.3	14.9
pH (SU)	85	0	<6	5	5.9		5.2	6.4	6.7	7	7.1	7.3	8
	85	0	>9	0	0		5.2	6.4	6.7	7	7.1	7.3	8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				51	81	98	113	134	147	162
Water Temperature (°C)	85	0	>32	0	0		0.7	6.4	11.8	21.8	25.1	27.5	29.2

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	3	5		6.9	8.1	9.7	15	23.2	38	100

Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.01	0.02	0.04	0.07	0.09	0.14	0.24
NO2 + NO3 as N	60	0	>10	0	0		0.02	0.09	0.12	0.15	0.19	0.26	0.33
TKN as N	60	3	N/A				0.2	0.3	0.44	0.66	0.84	1.03	1.61
Total Phosphorus	55	4	N/A				0.02	0.03	0.04	0.06	0.08	0.14	0.22

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	84.2	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CROOKED CRK AT SR 1719 BUNN ELEMENTARY SCHOOL RD NR BUNN
Station #: O2015000 **Hydrologic Unit Code:** 03020101
Latitude: 35.94504 **Longitude:** -78.26054 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-30

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	38	44.7	>99.9	0.1	1.8	2.6	4.4	7.2	9	14
	85	0	<5	48	56.5	>99.9	0.1	1.8	2.6	4.4	7.2	9	14
pH (SU)	85	0	<6	2	2.4		5.8	6.3	6.4	6.6	6.8	7	7.2
	85	0	>9	0	0		5.8	6.3	6.4	6.6	6.8	7	7.2
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				51	58	65	77	89	106	123
Water Temperature (°C)	85	0	>32	0	0		3.1	7.4	14.1	22.9	26.6	27.6	30.6
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	0	0		2.8	4.1	4.9	7.1	10	20.6	31
Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.01	0.02	0.03	0.05	0.09	0.15	0.2
NO2 + NO3 as N	60	42	N/A				0.01	0.01	0.01	0.02	0.02	0.05	0.09
TKN as N	60	2	N/A				0.2	0.3	0.49	0.7	0.93	1.09	1.62
Total Phosphorus	55	5	N/A				0.02	0.02	0.05	0.07	0.09	0.13	0.19

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	92.3	7	11.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CROOKED CRK AT NC 98 NR BUNN

Station #: O2020000

Hydrologic Unit Code: 03020101

Latitude: 35.93863

Longitude: -78.20892

Stream class: C NSW

Agency: TPBA

NC stream index: 28-30

Time period: 01/14/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	19	22.6	>99.9	1.6	3.1	4.1	5.8	8.3	10.5	13.6
	84	0	<5	31	36.9	>99.9	1.6	3.1	4.1	5.8	8.3	10.5	13.6
pH (SU)	84	0	<6	1	1.2		5.9	6.3	6.6	6.7	6.9	7	7.2
	84	0	>9	0	0		5.9	6.3	6.6	6.7	6.9	7	7.2
Spec. conductance (umhos/cm at 25°C)	83	1	N/A				50	63	71	82	97	111	135
Water Temperature (°C)	84	0	>32	0	0		2.7	8.2	13.5	23.1	27.5	29.4	31.6

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	1	1.7		4.5	5.4	6.6	8.6	12	14.9	100

Nutrients (mg/L)

NH3 as N	60	8	N/A				0.01	0.02	0.04	0.07	0.13	0.18	0.62
NO2 + NO3 as N	60	28	N/A				0.01	0.01	0.01	0.02	0.05	0.08	0.14
TKN as N	60	1	N/A				0.2	0.38	0.61	0.78	0.98	1.28	3.6
Total Phosphorus	55	3	N/A				0.02	0.04	0.06	0.08	0.11	0.15	1.04

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	59.8	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1145 OLD SPRING HOPE RD NR SPRING HOPE
Station #: O2101000 **Hydrologic Unit Code:** 03020101
Latitude: 35.90506 **Longitude:** -78.11319 **Stream class:** WS-V NSW
Agency: TPBA **NC stream index:** 28-(24.7)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.2	5.6	6.3	7.4	9.6	12.2	15.1
	84	0	<5	4	4.8		4.2	5.6	6.3	7.4	9.6	12.2	15.1
pH (SU)	85	0	<6	7	8.2		4.6	6	6.7	6.9	7.2	7.4	8.1
	85	0	>9	0	0		4.6	6	6.7	6.9	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				61	80	88	102	117	128	164
Water Temperature (°C)	85	0	>32	0	0		0.1	6.3	11.2	21.2	25.4	26.9	29.4
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	3	5		3.7	6.2	8.2	12	16	25.9	130
Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.01	0.01	0.02	0.05	0.09	0.14	0.27
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.03	0.09	0.14	0.21	0.24	0.35
TKN as N	60	1	N/A				0.2	0.38	0.47	0.61	0.83	1.08	1.68
Total Phosphorus	57	11	N/A				0.02	0.02	0.03	0.06	0.09	0.17	0.66
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	58.4	4	6.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 581 NR STANHOPE
Station #: O2102000
Latitude: 35.88205 **Longitude:** -78.08932
Agency: TPBA

Hydrologic Unit Code: 03020101
Stream class: WS-V NSW
NC stream index: 28-(24.7)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.6	5.5	6.3	7.4	9.5	12	15
	84	0	<5	3	3.6		4.6	5.5	6.3	7.4	9.5	12	15
pH (SU)	85	0	<6	3	3.5		5.5	6.5	6.7	7	7.2	7.3	7.6
	85	0	>9	0	0		5.5	6.5	6.7	7	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				58	80	89	103	118	129	166
Water Temperature (°C)	85	0	>32	0	0		0.1	6.1	11.2	21.2	25.3	26.8	29.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	3	5		3.7	6.2	7.9	11	16.8	27.7	150
Nutrients (mg/L)													
NH3 as N	60	3	N/A				0.01	0.02	0.03	0.06	0.08	0.15	0.2
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.03	0.08	0.15	0.22	0.26	0.36
TKN as N	60	1	N/A				0.2	0.39	0.47	0.62	0.82	1.16	1.56
Total Phosphorus	57	7	N/A				0.02	0.02	0.04	0.06	0.09	0.22	0.6

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	52.8	3	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1981 TAR RIVER CHURCH RD NR CLIFTONVILLE
Station #: O2140000 **Hydrologic Unit Code:** 03020101
Latitude: 35.84663 **Longitude:** -77.96394 **Stream class:** WS-IV NSW CA
Agency: TPBA **NC stream index:** 28-(35.5)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	3	3.6		2	4.6	5.5	6.5	9.1	11.8	14.3
	84	0	<5	10	11.9	66.9	2	4.6	5.5	6.5	9.1	11.8	14.3
pH (SU)	85	0	<6	5	5.9		4.6	6.4	6.8	7	7.2	7.3	7.9
	85	0	>9	0	0		4.6	6.4	6.8	7	7.2	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				61	79	90	101	117	129	149
Water Temperature (°C)	85	0	>32	0	0		0.8	7	12	22	26.7	28	29.8
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	3	5		4.7	6.5	8.5	12	16.8	26.8	100
Nutrients (mg/L)													
NH3 as N	60	5	N/A				0.01	0.02	0.04	0.06	0.09	0.15	0.37
NO2 + NO3 as N	60	1	>10	0	0		0.01	0.05	0.1	0.19	0.22	0.29	0.48
TKN as N	60	1	N/A				0.2	0.43	0.54	0.68	0.92	1.27	2.06
Total Phosphorus	57	5	N/A				0.02	0.02	0.04	0.06	0.1	0.19	0.61
Metals (ug/L)													
Aluminum, total (Al)	5	0	N/A				196	196	197	204	1392	1848	1848
Arsenic, total (As)	5	5	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	5	5	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	5	5	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	5	2	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	5	0	>1000	5	100		1491	1491	1550	1784	3028	3204	3204
Lead, total (Pb)	5	5	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	5	0	>200	1	20		95	95	104	122	171	215	215
Mercury, total (Hg)	5	5	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	5	5	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	5	4	>50	0	0		10	10	10	10	18	25	25

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	73.7	9	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SAPONY CRK AT SR 1704 BATCHELOR DR NR NASHVILLE

Station #: O2320000

Hydrologic Unit Code: 03020101

Latitude: 35.93201

Longitude: -77.93478

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-55-(5.5)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	36	42.9	> 99.9	0.5	1.4	2.7	4.6	6.6	9.4	11.8
	84	0	<5	49	58.3	> 99.9	0.5	1.4	2.7	4.6	6.6	9.4	11.8
pH (SU)	85	0	<6	4	4.7		2.2	6.1	6.5	6.7	6.9	7	8.4
	85	0	>9	0	0		2.2	6.1	6.5	6.7	6.9	7	8.4
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	81	93	105	122	132	151
Water Temperature (°C)	85	0	>32	0	0		0.5	6.4	11.9	19.9	24.1	25.9	27.7

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	0	0		4.2	5.5	7.4	9.6	15	22	45

Nutrients (mg/L)

NH3 as N	0	0	N/A										
NO2 + NO3 as N	0	0	>10	0									
TKN as N	0	0	N/A										
Total Phosphorus	0	0	N/A										

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	117.7	10	16.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT US 301 BYP AT ROCKY MOUNT

Station #: O2360000

Hydrologic Unit Code: 03020101

Latitude: 35.92572

Longitude: -77.83067

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(64.5)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	7	8.3		3.2	4.1	4.7	6.9	9.1	12.2	14.2
	84	0	<5	26	31	> 99.9	3.2	4.1	4.7	6.9	9.1	12.2	14.2
pH (SU)	85	0	<6	4	4.7		4.9	6.6	6.8	7	7.1	7.2	7.5
	85	0	>9	0	0		4.9	6.6	6.8	7	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				56	75	82	93	110	120	132
Water Temperature (°C)	85	0	>32	0	0		0.8	7.6	12.2	22.1	26.9	29	31.1

Other

TSS (mg/L)	60	20	N/A				1	1	3.1	3.7	6	15.8	29
Turbidity (NTU)	60	0	>50	2	3.3		2.1	3.1	5	7.8	17	24.9	60

Nutrients (mg/L)

NH3 as N	60	3	N/A				0.01	0.02	0.05	0.08	0.11	0.13	0.18
NO2 + NO3 as N	60	1	>10	0	0		0.01	0.09	0.11	0.16	0.22	0.28	0.99
TKN as N	60	1	N/A				0.2	0.49	0.58	0.75	0.99	1.27	2.36
Total Phosphorus	57	7	N/A				0	0.02	0.04	0.05	0.07	0.14	0.63

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	46.1	7	11.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: STONY CRK AT WINSTEAD AVE NR LITTLE EASONBURG
Station #: O3140000 **Hydrologic Unit Code:** 03020101
Latitude: 35.96880 **Longitude:** -77.84967 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-68

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	81	0	<4	14	17.3	97	2	3.2	4.5	5.9	7.9	11.3	13.6
	81	0	<5	21	25.9	>99.9	2	3.2	4.5	5.9	7.9	11.3	13.6
pH (SU)	82	0	<6	6	7.3		4.6	6.2	6.7	6.8	7	7.1	7.6
	82	0	>9	0	0		4.6	6.2	6.7	6.8	7	7.1	7.6
Spec. conductance (umhos/cm at 25°C)	82	0	N/A				52	76	88	97	109	115	137
Water Temperature (°C)	82	0	>32	0	0		0.4	7.5	11.6	20.6	24.4	25.6	28.3

Other													
Chlorophyll a (ug/L)	0	0	>40	0									
TSS (mg/L)	58	16	N/A				1	2	3.1	3.6	6.1	17.2	60
Turbidity (NTU)	58	0	>50	2	3.4		3.2	4.3	5.9	8	14	24.4	75

Nutrients (mg/L)													
NH3 as N	58	5	N/A				0.01	0.02	0.04	0.07	0.08	0.14	0.35
NO2 + NO3 as N	58	1	N/A				0.01	0.1	0.17	0.25	0.36	0.4	0.55
TKN as N	58	1	N/A				0.2	0.5	0.58	0.82	1.09	1.52	2.09
Total Phosphorus	55	4	N/A				0.02	0.03	0.06	0.09	0.13	0.19	0.61

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	154.5	16	27.6	89.7

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 97 AT ROCKY MOUNT
Station #: O3180000
Latitude: 35.95438 **Longitude:** -77.78740
Agency: NCAMBNT

Hydrologic Unit Code: 03020101
Stream class: C NSW
NC stream index: 28-(69)

Time period: 01/27/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		5.2	6.1	6.9	8.8	10.8	12.8	13.3
	31	0	<5	0	0		5.2	6.1	6.9	8.8	10.8	12.8	13.3
pH (SU)	31	0	<6	0	0		6.4	6.7	7	7.1	7.3	7.6	7.8
	31	0	>9	0	0		6.4	6.7	7	7.1	7.3	7.6	7.8
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				64	69	82	94	102	110	122
Water Temperature (°C)	31	0	>32	1	3.2		4.5	6.9	11.7	18.1	25.5	29.3	32.2
Other													
Hardness (mg/L)	14	0	N/A				22	23	25	28	29	31	31
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	10.8	17.4	26
Turbidity (NTU)	31	0	>50	0	0		1.3	2.8	3.8	8.6	14	23.6	50

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	62.4	2	6.5	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1250 SPRINGFIELD RD AT ROCKY MOUNT
Station #: O3189000 **Hydrologic Unit Code:** 03020101
Latitude: 35.97789 **Longitude:** -77.75769 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-(69)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	75	0	<4	0	0		4.8	5.6	6.2	7.3	10.2	12.2	14
	75	0	<5	2	2.7		4.8	5.6	6.2	7.3	10.2	12.2	14
pH (SU)	76	0	<6	2	2.6		3.6	6.5	6.8	7	7.1	7.3	7.7
	76	0	>9	0	0		3.6	6.5	6.8	7	7.1	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	75	0	N/A				61	78	85	97	111	119	164
Water Temperature (°C)	76	0	>32	0	0		2.6	7.9	12.9	22.2	26.8	28.5	31.1
Other													
TSS (mg/L)	54	14	N/A				1	1.6	3.1	4	7.5	26	65
Turbidity (NTU)	54	0	>50	3	5.6		2.6	3.1	5.2	8	15	24.5	75
Nutrients (mg/L)													
NH3 as N	54	4	N/A				0.01	0.01	0.04	0.07	0.1	0.17	0.57
NO2 + NO3 as N	54	0	N/A				0.04	0.09	0.15	0.19	0.25	0.3	0.41
TKN as N	54	1	N/A				0.2	0.49	0.59	0.76	1.03	1.25	3.03
Total Phosphorus	51	5	N/A				0.02	0.02	0.04	0.07	0.09	0.13	0.61
Metals (ug/L)													
Aluminum, total (Al)	5	0	N/A				217	217	224	309	1139	1948	1948
Arsenic, total (As)	5	5	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	5	5	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	5	5	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	5	2	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	5	0	>1000	5	100		1446	1446	1553	1893	2640	3322	3322
Lead, total (Pb)	5	5	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	5	0	N/A				76	76	80	97	120	134	134
Mercury, total (Hg)	5	5	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	5	5	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	5	3	>50	0	0		10	10	10	10	14	16	16

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	82.4	11	20.4	47.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1252 NR HARTSEASE
Station #: O3600000
Latitude: 35.94090 **Longitude:** -77.65511
Agency: NCAMBNT

Hydrologic Unit Code: 03020101
Stream class: WS-IV NSW
NC stream index: 28-(74)

Time period: 01/27/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		5.6	5.9	7	8.6	11.2	12.1	12.5
	31	0	<5	0	0		5.6	5.9	7	8.6	11.2	12.1	12.5
pH (SU)	31	0	<6	0	0		6.5	6.6	6.9	7.1	7.3	7.5	8.3
	31	0	>9	0	0		6.5	6.6	6.9	7.1	7.3	7.5	8.3
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				60	78	94	108	132	157	210
Water Temperature (°C)	31	0	>32	0	0		4.8	7	10.3	18	25.2	28.7	31.9
Other													
Hardness (mg/L)	14	0	>100	0	0		22	24	28	30	33	39	43
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	9.1	15.8	25.9	58
Turbidity (NTU)	31	0	>50	0	0		1.9	2.7	3.9	13	16	31.6	40
Nutrients (mg/L)													
NH3 as N	30	4	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.08
NO2 + NO3 as N	30	0	>10	0	0		0.16	0.24	0.27	0.45	0.55	0.75	1
TKN as N	30	0	N/A				0.4	0.45	0.54	0.57	0.67	0.78	0.9
Total Phosphorus	30	0	N/A				0.05	0.06	0.08	0.1	0.14	0.17	0.18

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	82.6	2	6.5	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1252 NR HARTSEASE
Station #: O3600000
Latitude: 35.94090 **Longitude:** -77.65511
Agency: TPBA

Hydrologic Unit Code: 03020101
Stream class: WS-IV NSW
NC stream index: 28-(74)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		5.1	5.9	6.6	7.4	10.1	12.1	13.4
	84	0	<5	0	0		5.1	5.9	6.6	7.4	10.1	12.1	13.4
pH (SU)	85	0	<6	1	1.2		5.2	6.5	6.8	7.1	7.2	7.5	8
	85	0	>9	0	0		5.2	6.5	6.8	7.1	7.2	7.5	8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				56	90	100	126	148	180	212
Water Temperature (°C)	85	0	>32	0	0		2.6	8	12.8	22.1	26.3	27.9	31.3
Other													
TSS (mg/L)	60	15	N/A				1	2.3	3.1	5.5	10	32.3	168
Turbidity (NTU)	60	0	>50	4	6.7		1.8	2.4	5	7.6	14.8	22	190
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.01	0.02	0.04	0.07	0.09	0.17	0.45
NO2 + NO3 as N	60	0	>10	0	0		0.13	0.23	0.36	0.5	0.7	0.85	1.07
TKN as N	60	1	N/A				0.2	0.51	0.59	0.78	0.96	1.31	2.43
Total Phosphorus	57	2	N/A				0.02	0.03	0.05	0.09	0.12	0.19	0.59
Metals (ug/L)													
Aluminum, total (Al)	5	0	N/A				220	220	238	277	1371	2341	2341
Arsenic, total (As)	5	5	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	5	5	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	5	5	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	5	1	>7	0	0		2	2	2	2	4	5	5
Iron, total (Fe)	5	0	>1000	5	100		1609	1609	1628	1939	2902	3616	3616
Lead, total (Pb)	5	5	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	5	0	>200	0	0		55	55	64	90	144	175	175
Mercury, total (Hg)	5	5	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	5	5	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	5	2	>50	0	0		10	10	10	14	20	24	24

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	87.4	8	13.3	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SANDY CRK AT SR 1432 NR GUPTON
Station #: O3830000
Latitude: 36.17785 **Longitude:** -78.19089
Agency: NCAMBNT

Hydrologic Unit Code: 03020101
Stream class: B NSW +
NC stream index: 28-78-1-(8)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		5.3	6.5	7.2	9.3	10.7	12.1	12.6
	30	0	<5	0	0		5.3	6.5	7.2	9.3	10.7	12.1	12.6
pH (SU)	31	0	<6	0	0		6.4	6.7	7	7.2	7.3	7.4	7.5
	31	0	>9	0	0		6.4	6.7	7	7.2	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				57	65	73	80	92	104	108
Water Temperature (°C)	31	0	>32	0	0		3.5	5.2	9.2	14.2	24.4	26.4	28.2
Other													
Hardness (mg/L)	14	0	N/A				17	18	19	24	30	42	50
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	6.2	12
Turbidity (NTU)	31	0	>50	0	0		2.2	3	3.8	5.1	7.3	12.2	30

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	37	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SWIFT CRK AT SR 1310 AT HILLIARDSTON

Station #: O3870000

Hydrologic Unit Code: 03020101

Latitude: 36.11175

Longitude: -77.92122

Stream class: C ORW NSW

Agency: NCAMBNT

NC stream index: 28-78-(0.5)

Time period: 01/27/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		4.2	5.2	6.8	8.4	10.5	12.3	13
	31	0	<5	1	3.2		4.2	5.2	6.8	8.4	10.5	12.3	13
pH (SU)	31	0	<6	0	0		6.2	6.6	6.9	7	7.1	7.3	7.5
	31	0	>9	0	0		6.2	6.6	6.9	7	7.1	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				60	62	66	76	84	92	103
Water Temperature (°C)	31	0	>32	0	0		3.4	4.9	8.8	16.3	23	24.5	26.3
Other													
Hardness (mg/L)	14	0	N/A				17	18	22	24	26	30	30
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	14.2	32.8	51
Turbidity (NTU)	31	0	>50	1	3.2		3	3.5	5.3	8.2	18	30	55

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
30	128.7	5	16.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SWIFT CRK AT SR 1253 NR LEGGETT
Station #: O4000000
Latitude: 35.96679 **Longitude:** -77.58535
Agency: NCAMBNT

Hydrologic Unit Code: 03020101
Stream class: WS-IV NSW
NC stream index: 28-78-(6.5)

Time period: 01/27/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		4.6	4.9	6.6	7.8	10.2	11.6	12.1
	31	0	<5	3	9.7		4.6	4.9	6.6	7.8	10.2	11.6	12.1
pH (SU)	31	0	<6	0	0		6.2	6.4	6.8	7	7.2	7.3	7.6
	31	0	>9	0	0		6.2	6.4	6.8	7	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				63	75	84	93	104	112	131
Water Temperature (°C)	31	0	>32	0	0		3.8	6.2	10.2	17.4	24.4	26.7	28.5
Other													
Hardness (mg/L)	14	0	>100	0	0		21	22	26	34	37	40	42
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	6.4	12	15
Turbidity (NTU)	31	0	>50	0	0		2.3	2.6	3.4	4.7	6.5	9.1	16

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	65.9	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 33 NR TARBORO
Station #: O4100000
Latitude: 35.92844 **Longitude:** -77.54984
Agency: TPBA

Hydrologic Unit Code: 03020101
Stream class: WS-IV NSW
NC stream index: 28-(74)

Time period: 01/28/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.8	6	6.5	7.4	10.1	12.1	14.5
	84	0	<5	2	2.4		4.8	6	6.5	7.4	10.1	12.1	14.5
pH (SU)	85	0	<6	2	2.4		5.9	6.6	6.7	7	7.3	7.5	8.1
	85	0	>9	0	0		5.9	6.6	6.7	7	7.3	7.5	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				61	91	97	120	140	173	232
Water Temperature (°C)	85	0	>32	0	0		1.7	8	12.7	22.4	26.6	29.1	31.8

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	2	3.3		1.8	3.3	4.7	8.8	16.8	19.9	120

Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.01	0.02	0.03	0.06	0.09	0.12	0.79
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.18	0.28	0.42	0.54	0.66	0.97
TKN as N	60	1	N/A				0.2	0.46	0.57	0.76	1.05	1.59	2.31
Total Phosphorus	57	4	N/A				0.02	0.03	0.05	0.08	0.12	0.21	0.6

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	61.8	5	8.3	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT SR 1001 DR KING BLVD NR WARRENTON
Station #: O4300000 **Hydrologic Unit Code:** 03020102
Latitude: 36.38402 **Longitude:** -78.18135 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-79-(1)

Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	22	25.9	> 99.9	0.4	2.6	3.9	5.7	8.4	11.2	13.8
	85	0	<5	29	34.1	> 99.9	0.4	2.6	3.9	5.7	8.4	11.2	13.8
pH (SU)	85	0	<6	7	8.2		2.9	6.1	6.5	6.7	7	7.5	8.1
	85	0	>9	0	0		2.9	6.1	6.5	6.7	7	7.5	8.1
Spec. conductance (umhos/cm at 25°C)	84	1	N/A				50	65	74	86	100	122	163
Water Temperature (°C)	85	0	>32	0	0		0.2	4.1	10.2	19.1	22.6	24.3	25.9
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	1	1.7		5.5	6.9	8.9	12	14	20	55
Nutrients (mg/L)													
NH3 as N	60	5	N/A				0.01	0.02	0.03	0.06	0.1	0.17	0.48
NO2 + NO3 as N	60	11	N/A				0.01	0.02	0.02	0.04	0.09	0.14	0.24
TKN as N	60	2	N/A				0.2	0.26	0.35	0.47	0.6	0.85	1.33
Total Phosphorus	57	9	N/A				0.02	0.02	0.03	0.04	0.07	0.08	0.54

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	50.4	1	1.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT SR 1600 BALTIMORE RD NR WARRENTON
Station #: O4400500 **Hydrologic Unit Code:** 03020102
Latitude: 36.35735 **Longitude:** -78.14494 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-79-(1)

Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	72	0	<4	9	12.5	70.8	2.1	3.8	6.4	7.6	10.6	12.8	14.2
	72	0	<5	11	15.3	89.8	2.1	3.8	6.4	7.6	10.6	12.8	14.2
pH (SU)	72	0	<6	5	6.9		4.6	6.2	6.7	6.9	7.1	7.3	7.9
	72	0	>9	0	0		4.6	6.2	6.7	6.9	7.1	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	72	0	N/A				62	80	90	108	136	209	298
Water Temperature (°C)	72	0	>32	0	0		0.4	4.6	9.9	17.9	22.8	24.5	25.8
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	52	0	>50	0	0		3.2	4.5	6.1	7.8	9.8	14.7	45
Nutrients (mg/L)													
NH3 as N	52	5	N/A				0.01	0.01	0.04	0.06	0.09	0.12	0.44
NO2 + NO3 as N	52	0	N/A				0.05	0.07	0.17	0.4	0.75	1.01	1.86
TKN as N	52	3	N/A				0.2	0.22	0.38	0.48	0.65	0.85	1.37
Total Phosphorus	49	2	N/A				0.02	0.03	0.05	0.07	0.1	0.16	0.67

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
52	68.9	1	1.9	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT SR 1609 POWELLS MILL RD NR WARRENTON
Station #: O4403000 **Hydrologic Unit Code:** 03020102
Latitude: 36.33930 **Longitude:** -78.12880 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-79-(1)

Time period: 07/02/2010 to 09/30/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	6	0	<4	0	0		4.9	4.9	5.5	5.9	6.9	7.6	7.6
	6	0	<5	1	16.7		4.9	4.9	5.5	5.9	6.9	7.6	7.6
pH (SU)	6	0	<6	0	0		6.1	6.1	6.6	7.1	7.1	7.1	7.1
	6	0	>9	0	0		6.1	6.1	6.6	7.1	7.1	7.1	7.1
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				99	99	120	138	169	171	171
Water Temperature (°C)	6	0	>32	0	0		18.7	18.7	18.8	21.1	24.5	25.3	25.3
Other													
Turbidity (NTU)	3	0	>50	0	0		3.7	3.7	3.7	5.3	10	10	10
Nutrients (mg/L)													
NH3 as N	3	0	N/A				0.05	0.05	0.05	0.07	0.13	0.13	0.13
NO2 + NO3 as N	3	0	N/A				0.16	0.16	0.16	0.24	0.24	0.24	0.24
TKN as N	3	0	N/A				0.36	0.36	0.36	0.69	0.88	0.88	0.88
Total Phosphorus	3	0	N/A				0.07	0.07	0.07	0.08	0.08	0.08	0.08

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
3	105.6	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT NC 561 NR WOOD
Station #: O4480000
Latitude: 36.20105 **Longitude:** -78.00401
Agency: TPBA

Hydrologic Unit Code: 03020102
Stream class: WS-V NSW
NC stream index: 28-79-(21)

Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	2	2.4		3.7	4.9	6.2	7.4	9.9	12.1	14.3
	85	0	<5	8	9.4		3.7	4.9	6.2	7.4	9.9	12.1	14.3
pH (SU)	85	0	<6	5	5.9		4.9	6.4	6.9	7	7.2	7.5	8.2
	85	0	>9	0	0		4.9	6.4	6.9	7	7.2	7.5	8.2
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	71	78	93	104	116	143
Water Temperature (°C)	85	0	>32	0	0		0.1	4.6	10	18.8	22.8	24.5	26.5

Other													
TSS (mg/L)	60	21	N/A				1.3	2.8	3.1	3.6	5.6	9.3	80
Turbidity (NTU)	60	0	>50	0	0		5	5.8	7.3	9.4	13.8	18	36

Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.01	0.02	0.02	0.04	0.08	0.16	0.44
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.02	0.05	0.1	0.14	0.2	0.25
TKN as N	60	3	N/A				0.2	0.24	0.32	0.48	0.67	0.91	1.46
Total Phosphorus	57	8	N/A				0.02	0.02	0.03	0.05	0.07	0.11	0.57

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	61.2	1	1.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LITTLE FISHING CRK AT NC 481 NR WHITE OAK
Station #: O4630000 **Hydrologic Unit Code:** 03020102
Latitude: 36.18620 **Longitude:** -77.87601 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-79-25

Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	7	8.2		1.9	4.2	5.2	6.9	9.6	12.2	14.3
	85	0	<5	17	20	99.6	1.9	4.2	5.2	6.9	9.6	12.2	14.3
pH (SU)	85	0	<6	4	4.7		5.6	6.6	6.7	6.9	7	7.2	7.6
	85	0	>9	0	0		5.6	6.6	6.7	6.9	7	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				53	68	77	88	106	114	131
Water Temperature (°C)	85	0	>32	0	0		0.1	5	10.7	18.9	23.3	25.2	27.1
Other													
TSS (mg/L)	60	29	N/A				1	1.5	3.1	3.3	4.7	9.7	16
Turbidity (NTU)	60	0	>50	0	0		2.8	4.8	5.4	7.9	11	14	30
Nutrients (mg/L)													
NH3 as N	60	8	N/A				0.01	0.01	0.04	0.06	0.08	0.14	0.44
NO2 + NO3 as N	60	7	N/A				0.01	0.01	0.04	0.06	0.11	0.13	0.18
TKN as N	60	1	N/A				0.2	0.26	0.41	0.55	0.73	1.02	1.53
Total Phosphorus	57	8	N/A				0.02	0.02	0.03	0.05	0.06	0.13	0.55

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	59.5	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT SR 1222 BELLAMY MILL RD NR ENFIELD

Station #: O4670000

Hydrologic Unit Code: 03020102

Latitude: 36.15490

Longitude: -77.74036

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-79-(25.5)

Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.8	4.9	6	7.5	10	12.5	14.5
	85	0	<5	11	12.9	77.1	3.8	4.9	6	7.5	10	12.5	14.5
pH (SU)	85	0	<6	1	1.2		5.8	6.6	6.7	6.9	7.2	7.3	7.8
	85	0	>9	0	0		5.8	6.6	6.7	6.9	7.2	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	75	82	94	103	114	125
Water Temperature (°C)	85	0	>32	0	0		0.9	5.4	10.9	20.9	26.1	27.9	31
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	0	0		2.6	4	5.3	7.5	10	15	23
Nutrients (mg/L)													
NH3 as N	60	9	N/A				0.01	0.01	0.04	0.06	0.12	0.2	0.47
NO2 + NO3 as N	60	1	>10	0	0		0.01	0.03	0.07	0.1	0.15	0.21	0.28
TKN as N	60	1	N/A				0.2	0.28	0.39	0.53	0.79	1.11	1.42
Total Phosphorus	57	7	N/A				0.02	0.02	0.03	0.05	0.07	0.11	0.63
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	29.9	2	3.3	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT US 301 NR ENFIELD
Station #: O4680000
Latitude: 36.15094 **Longitude:** -77.69267
Agency: NCAMBNT

Hydrologic Unit Code: 03020102
Stream class: C NSW
NC stream index: 28-79-(29)

Time period: 01/27/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	1	3.2		2.5	4.1	6.3	8.3	10.7	12.5	13.7
	31	0	<5	5	16.1	80.6	2.5	4.1	6.3	8.3	10.7	12.5	13.7
pH (SU)	31	0	<6	0	0		6	6.6	6.8	7	7.1	7.3	7.4
	31	0	>9	0	0		6	6.6	6.8	7	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				59	64	71	82	98	104	113
Water Temperature (°C)	31	0	>32	0	0		3.1	5.1	9.1	16	22.8	26.9	29.2
Other													
Hardness (mg/L)	14	0	N/A				13	16	25	30	34	37	38
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	11	20	24
Turbidity (NTU)	31	0	>50	0	0		3.3	3.8	5.6	8.2	11	31.4	45
Nutrients (mg/L)													
NH3 as N	31	13	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.08
NO2 + NO3 as N	31	0	N/A				0.03	0.05	0.07	0.11	0.16	0.21	0.51
TKN as N	31	0	N/A				0.26	0.31	0.36	0.42	0.6	0.69	1
Total Phosphorus	31	0	N/A				0.03	0.03	0.05	0.05	0.08	0.12	0.14

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	66.4	4	12.9	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT SR 1109 ETHERIDGE FARM RD NR ENFIELD
Station #: O4690000 **Hydrologic Unit Code:** 03020102
Latitude: 36.11342 **Longitude:** -77.62704 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-79-(29)
Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	76	0	<4	4	5.3		3.5	4.6	5.6	6.8	10.1	12.5	13.9
	76	0	<5	10	13.2	77.3	3.5	4.6	5.6	6.8	10.1	12.5	13.9
pH (SU)	76	0	<6	3	3.9		5.6	6.5	6.7	6.9	7.2	7.3	7.4
	76	0	>9	0	0		5.6	6.5	6.7	6.9	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	76	0	N/A				60	78	83	98	108	119	135
Water Temperature (°C)	76	0	>32	0	0		1	7	11.5	20.8	26.1	28	29.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	54	0	>50	0	0		3.6	4.6	5.3	7.5	12.2	18	28
Nutrients (mg/L)													
NH3 as N	54	8	N/A				0.01	0.01	0.03	0.06	0.08	0.12	0.45
NO2 + NO3 as N	54	3	N/A				0.01	0.04	0.09	0.13	0.2	0.25	0.32
TKN as N	54	1	N/A				0.2	0.32	0.39	0.57	0.78	0.9	1.17
Total Phosphorus	51	7	N/A				0.02	0.02	0.04	0.05	0.07	0.1	0.74

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	43.6	2	3.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHING CRK AT NC 97 NR LAWRENCE
Station #: O4899000
Latitude: 36.00828 **Longitude:** -77.52518
Agency: TPBA

Hydrologic Unit Code: 03020102
Stream class: WS-IV NSW
NC stream index: 28-79-(30.5)

Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		1.4	5.6	6.5	7	9.4	12.3	13.6
	85	0	<5	5	5.9		1.4	5.6	6.5	7	9.4	12.3	13.6
pH (SU)	85	0	<6	4	4.7		5.8	6.3	6.5	6.7	7.1	7.2	7.5
	85	0	>9	0	0		5.8	6.3	6.5	6.7	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				60	81	89	100	109	119	137
Water Temperature (°C)	85	0	>32	0	0		1	6.3	11.8	20.8	26	28.5	31.4
Other													
TSS (mg/L)	60	23	N/A				1	3	3.1	3.6	5.6	8.6	60
Turbidity (NTU)	60	0	>50	1	1.7		2.6	3.3	5.3	8.4	11.8	16.8	75
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.01	0.02	0.02	0.05	0.1	0.18	0.69
NO2 + NO3 as N	60	4	>10	0	0		0.01	0.04	0.08	0.14	0.18	0.25	0.64
TKN as N	60	2	N/A				0.2	0.37	0.48	0.67	0.89	1.36	1.67
Total Phosphorus	57	5	N/A				0.02	0.02	0.03	0.06	0.09	0.12	0.56
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	45.7	2	3.3										

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: UT TO DEEP CRK AT SR 1104 NR SCOTLAND NECK
Station #: O4995000 **Hydrologic Unit Code:** 03020102
Latitude: 36.13551 **Longitude:** -77.48517 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-79-32-(0.5)
Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	61	72.6	>99.9	0.1	0.2	0.6	2	4.7	9.2	12.8
	84	0	<5	66	78.6	>99.9	0.1	0.2	0.6	2	4.7	9.2	12.8
pH (SU)	84	0	<6	14	16.7	96.1	3.9	5.6	6.1	6.3	6.6	6.8	7
	84	0	>9	0	0		3.9	5.6	6.1	6.3	6.6	6.8	7
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				72	86	103	129	151	176	203
Water Temperature (°C)	84	0	>32	0	0		1.3	5.8	12.2	20.1	23.7	25.4	27.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	59	0	>50	3	5.1		2.8	5.7	7.1	13	24	40	70
Nutrients (mg/L)													
NH3 as N	59	2	N/A				0.01	0.03	0.04	0.12	0.49	1.65	2.5
NO2 + NO3 as N	59	27	N/A				0.01	0.01	0.01	0.02	0.02	0.04	0.16
TKN as N	59	0	N/A				0.35	1.07	1.26	1.89	3.03	4.96	9.3
Total Phosphorus	56	0	N/A				0.03	0.07	0.12	0.24	0.39	0.63	0.93

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	96	9	15.3										

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: DEEP CRK AT US 258 NR SCOTLAND NECK

Station #: O5100000

Hydrologic Unit Code: 03020102

Latitude: 36.10964

Longitude: -77.43827

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-32-(0.5)

Time period: 01/29/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	66	79.5	>99.9	0.1	0.2	0.6	1.2	3.2	7.6	11.2
	83	0	<5	68	81.9	>99.9	0.1	0.2	0.6	1.2	3.2	7.6	11.2
pH (SU)	83	0	<6	18	21.7	99.9	5.2	5.8	6.1	6.3	6.5	6.7	7
	83	0	>9	0	0		5.2	5.8	6.1	6.3	6.5	6.7	7
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				64	81	98	126	181	217	277
Water Temperature (°C)	83	0	>32	0	0		2	6.6	11.7	20.2	23.3	25.5	27.4
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	57	0	>50	1	1.8		1.8	3.2	5.5	9.7	20	30.6	70
Nutrients (mg/L)													
NH3 as N	57	7	N/A				0.01	0.01	0.03	0.06	0.15	0.26	0.52
NO2 + NO3 as N	57	37	N/A				0.01	0.01	0.01	0.02	0.02	0.08	0.53
TKN as N	57	0	N/A				0.66	0.99	1.16	1.52	2.09	2.88	4.15
Total Phosphorus	54	0	N/A				0.03	0.06	0.1	0.24	0.55	0.81	1.46
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
57	89	10	17.5	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 33 AND US 64 BUS AT TARBORO
Station #: O5250000 **Hydrologic Unit Code:** 03020103
Latitude: 35.89352 **Longitude:** -77.53233 **Stream class:** C NSW
Agency: NCAMBNT **NC stream index:** 28-(80)

Time period: 01/27/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		4.2	5.6	7.1	8.2	10.9	12.2	12.8
	31	0	<5	2	6.5		4.2	5.6	7.1	8.2	10.9	12.2	12.8
pH (SU)	31	0	<6	0	0		6.2	6.4	6.6	6.9	7.3	7.6	8.1
	31	0	>9	0	0		6.2	6.4	6.6	6.9	7.3	7.6	8.1
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				59	79	89	105	126	140	173
Water Temperature (°C)	31	0	>32	1	3.2		4.5	6.5	9.3	17.8	25.2	29	32.3
Other													
Hardness (mg/L)	14	0	N/A				13	16	26	34	37	40	42
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	11	26.8	35.5	61
Turbidity (NTU)	31	0	>50	0	0		2.2	3.1	4.1	12	17	31	36
Nutrients (mg/L)													
NH3 as N	31	8	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.1
NO2 + NO3 as N	31	0	N/A				0.13	0.17	0.23	0.29	0.42	0.49	0.58
TKN as N	31	0	N/A				0.39	0.41	0.47	0.58	0.67	0.85	0.96
Total Phosphorus	31	0	N/A				0.05	0.06	0.07	0.1	0.12	0.17	0.19

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
31	68.8	3	9.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 33 AND US 64 BUS AT TARBORO

Station #: O5250000

Hydrologic Unit Code: 03020103

Latitude: 35.89352

Longitude: -77.53233

Stream class: C NSW

Agency: TPBA

NC stream index: 28-(80)

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	1	1.2		1.9	5.8	6.4	7.2	9.7	11.3	14.3
	84	0	<5	2	2.4		1.9	5.8	6.4	7.2	9.7	11.3	14.3
pH (SU)	84	0	<6	3	3.6		5.1	6.1	6.5	6.9	7.2	7.4	8
	84	0	>9	0	0		5.1	6.1	6.5	6.9	7.2	7.4	8
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				55	80	94	115	131	164	203
Water Temperature (°C)	84	0	>32	0	0		1.6	7.3	12.3	21.5	26.9	28.1	31.1
Other													
TSS (mg/L)	59	10	N/A				1.2	3.1	3.5	6.8	13	16	36
Turbidity (NTU)	59	0	>50	0	0		2.6	3.5	5.3	11	16	32	45
Nutrients (mg/L)													
NH3 as N	59	6	N/A				0.01	0.02	0.03	0.06	0.08	0.13	0.65
NO2 + NO3 as N	59	1	N/A				0.02	0.16	0.25	0.32	0.4	0.51	0.58
TKN as N	59	0	N/A				0.28	0.39	0.53	0.71	0.95	1.22	1.62
Total Phosphorus	56	3	N/A				0.02	0.04	0.06	0.08	0.11	0.15	0.24
Metals (ug/L)													
Aluminum, total (Al)	6	0	N/A				50	50	316	418	890	898	898
Arsenic, total (As)	6	6	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	6	6	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	6	6	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	6	3	>7	0	0		2	2	2	2	3	4	4
Iron, total (Fe)	6	0	>1000	5	83.3		844	844	1530	1856	2087	2112	2112
Lead, total (Pb)	6	6	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	6	0	N/A				53	53	68	88	110	113	113
Mercury, total (Hg)	6	6	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	6	6	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	6	5	>50	0	0		10	10	10	10	11	14	14

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	72.7	4	6.8	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TOWN CRK AT NC 111 SR 1202 NR WIGGINS CROSSROADS
Station #: O5600000 **Hydrologic Unit Code:** 03020103
Latitude: 35.82238 **Longitude:** -77.63390 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-83

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	57	67.1	>99.9	0.3	0.7	1.5	2.9	5	9.3	13
	85	0	<5	63	74.1	>99.9	0.3	0.7	1.5	2.9	5	9.3	13
pH (SU)	85	0	<6	11	12.9	77.1	4.8	5.9	6.2	6.4	6.6	6.8	7.2
	85	0	>9	0	0		4.8	5.9	6.2	6.4	6.6	6.8	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				73	90	98	110	120	127	139
Water Temperature (°C)	85	0	>32	0	0		0.3	6.7	12.7	21.3	25.4	27	28.9

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	0	0		2.7	4.1	5.1	7	9.7	14.9	39

Nutrients (mg/L)			
NH3 as N	0	0	N/A
NO2 + NO3 as N	0	0	N/A
TKN as N	0	0	N/A
Total Phosphorus	0	0	N/A

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	63.1	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TOWN CRK AT US 258 NR COBBS CROSSROADS
Station #: O5990000 **Hydrologic Unit Code:** 03020103
Latitude: 35.79828 **Longitude:** -77.59144 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-83

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	24	28.2	>99.9	1.4	2.6	3.6	5.9	7.4	11	14.5
	85	0	<5	38	44.7	>99.9	1.4	2.6	3.6	5.9	7.4	11	14.5
pH (SU)	85	0	<6	7	8.2		4.9	6	6.2	6.6	6.8	7	7.4
	85	0	>9	0	0		4.9	6	6.2	6.6	6.8	7	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				62	88	98	111	119	133	169
Water Temperature (°C)	85	0	>32	0	0		0.9	7.3	12.2	19.7	24.1	25.7	27.5

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	0	0		2.3	3	4	5.3	6.8	12	40

Nutrients (mg/L)			
NH3 as N	0	0	N/A
NO2 + NO3 as N	0	0	N/A
TKN as N	0	0	N/A
Total Phosphorus	0	0	N/A

Metals (ug/L)			
Cadmium, total (Cd)	0	0	>2
Chromium, total (Cr)	0	0	>50
Copper, total (Cu)	0	0	>7
Lead, total (Pb)	0	0	>25
Nickel, total (Ni)	0	0	>88

Fecal Coliform Screening(#/100mL)			
# results:	Geomean:	# > 400:	% > 400: %Conf:
60	102.5	5	8.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 42 AT OLD SPARTA
Station #: O6000000
Latitude: 35.79030 **Longitude:** -77.55067
Agency: TPBA

Hydrologic Unit Code: 03020103
Stream class: C NSW
NC stream index: 28-(80)

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.7	5.6	6.3	7	9.6	11.3	14.3
	84	0	<5	2	2.4		4.7	5.6	6.3	7	9.6	11.3	14.3
pH (SU)	84	0	<6	4	4.8		5.2	6.3	6.6	7	7.3	7.5	8.4
	84	0	>9	0	0		5.2	6.3	6.6	7	7.3	7.5	8.4
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				57	86	95	116	142	182	231
Water Temperature (°C)	84	0	>32	0	0		1.5	7.1	12.3	21.6	26	27.6	30.5
Other													
TSS (mg/L)	60	13	N/A				1	2.2	3.3	8	13.8	21.6	37
Turbidity (NTU)	60	0	>50	0	0		1.4	2.5	5	9.6	16	29.6	45
Nutrients (mg/L)													
NH3 as N	60	8	N/A				0.01	0.02	0.04	0.06	0.1	0.17	0.52
NO2 + NO3 as N	60	0	N/A				0.16	0.23	0.27	0.37	0.54	0.6	0.83
TKN as N	60	1	N/A				0.2	0.36	0.55	0.71	0.86	1.25	1.91
Total Phosphorus	57	2	N/A				0.02	0.05	0.06	0.08	0.1	0.13	0.39
Metals (ug/L)													
Aluminum, total (Al)	6	0	N/A				270	270	351	388	884	959	959
Arsenic, total (As)	6	6	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	6	6	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	6	6	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	6	3	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	6	0	>1000	6	100		1225	1225	1578	1792	1986	2081	2081
Lead, total (Pb)	6	6	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	6	0	N/A				59	59	63	69	106	141	141
Mercury, total (Hg)	6	6	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	6	6	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	6	5	>50	0	0		10	10	10	10	11	15	15

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	77.9	6	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT NC 222 NR FALKLAND
Station #: O6200000
Latitude: 35.69624 **Longitude:** -77.48949
Agency: NCAMBNT

Hydrologic Unit Code: 03020103
Stream class: WS-IV NSW
NC stream index: 28-(84)

Time period: 01/22/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	1	1.7		1.2	6.3	7.2	8.5	10.4	11.6	12.9
	60	0	<5	2	3.3		1.2	6.3	7.2	8.5	10.4	11.6	12.9
pH (SU)	60	0	<6	4	6.7		5.7	6.1	6.6	6.9	7.2	7.6	8.5
	60	0	>9	0	0		5.7	6.1	6.6	6.9	7.2	7.6	8.5
Salinity (ppt)	60	0	N/A				0.02	0.03	0.04	0.04	0.06	0.08	0.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				66	88	99	114	146	171	209
Water Temperature (°C)	60	0	>32	1	1.7		2.3	6.6	10.3	18.1	26.4	29.4	32.2
Other													
Hardness (mg/L)	14	0	>100	0	0		27	28	30	34	38	40	40
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	8.7	12	17.8	50
Turbidity (NTU)	60	0	>50	1	1.7		1.8	2.2	4	8	13	25.3	58
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.09
NO2 + NO3 as N	60	0	>10	0	0		0.06	0.16	0.26	0.33	0.4	0.48	0.63
TKN as N	60	0	N/A				0.36	0.42	0.49	0.56	0.7	0.83	1.7
Total Phosphorus	60	0	N/A				0.03	0.05	0.06	0.09	0.11	0.14	0.35

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	49.2	2	3.3

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: BALLAHACK CANAL AT SR 1526 NR CONETOE

Station #: O6201000

Hydrologic Unit Code: 03020103

Latitude: 35.86447

Longitude: -77.44383

Stream class: C NSW

Agency: TPBA

NC stream index: 28-87-1.2

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	30	36.1	>99.9	0.3	1.9	3.2	5	7.5	9.2	10.7
	83	0	<5	41	49.4	>99.9	0.3	1.9	3.2	5	7.5	9.2	10.7
pH (SU)	83	0	<6	37	44.6	>99.9	4.7	5.4	5.7	6	6.4	6.8	7.2
	83	0	>9	0	0		4.7	5.4	5.7	6	6.4	6.8	7.2
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				110	127	144	166	186	212	336
Water Temperature (°C)	83	0	>32	0	0		4.5	9.1	12.4	19.8	24	26.6	29.4

Other

TSS (mg/L)	58	15	N/A				1.1	3.1	3.4	6.4	11	25.1	594
Turbidity (NTU)	58	0	>50	1	1.7		1.6	3.5	5.1	8.3	12.2	29.4	90

Nutrients (mg/L)

NH3 as N	58	2	N/A				0.01	0.04	0.06	0.09	0.17	0.5	3.55
NO2 + NO3 as N	58	2	N/A				0.01	0.04	0.51	0.96	1.43	1.84	2.39
TKN as N	58	0	N/A				0.25	0.35	0.55	0.75	1.09	1.69	7.35
Total Phosphorus	55	11	N/A				0.02	0.02	0.02	0.04	0.07	0.15	0.6

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
58	61.2	10	17.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CONETOE CRK AT SR 1409 NR BETHEL
Station #: O6205000
Latitude: 35.77427 **Longitude:** -77.46384
Agency: NCAMBNT

Hydrologic Unit Code: 03020103
Stream class: C NSW
NC stream index: 28-87-(0.5)

Time period: 01/22/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	8	14	79.3	2.6	3.3	4.9	7.4	9.3	10.4	12.2
	57	0	<5	15	26.3	> 99.9	2.6	3.3	4.9	7.4	9.3	10.4	12.2
pH (SU)	57	0	<6	24	42.1	> 99.9	5.2	5.7	5.8	6	6.2	6.5	7.1
	57	0	>9	0	0		5.2	5.7	5.8	6	6.2	6.5	7.1
Salinity (ppt)	57	0	N/A				0.04	0.05	0.06	0.07	0.07	0.08	0.1
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				107	129	140	153	168	183	220
Water Temperature (°C)	57	0	>32	0	0		3	7.6	10.5	15.2	22.3	24.2	25.6
Other													
Hardness (mg/L)	13	0	N/A				39	40	44	47	51	62	65
TSS (mg/L)	19	15	N/A				6.2	6.2	6.2	6.2	7.5	12	23
Turbidity (NTU)	57	0	>50	1	1.8		1.2	2.2	3.8	4.8	8	21	130
Nutrients (mg/L)													
NH3 as N	57	4	N/A				0.02	0.02	0.04	0.08	0.15	0.38	1.5
NO2 + NO3 as N	57	0	N/A				0.18	0.98	1.45	1.9	2.25	2.6	3.1
TKN as N	57	0	N/A				0.32	0.43	0.53	0.63	0.88	1.12	2.3
Total Phosphorus	57	0	N/A				0.02	0.03	0.05	0.07	0.11	0.15	0.41

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
57	93.2	6	10.5

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT US 264 BYP NR GREENVILLE

Station #: O6240000

Hydrologic Unit Code: 03020103

Latitude: 35.64598

Longitude: -77.42212

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(84)

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	2	2.4		1.8	5.5	6	6.9	9	11	15.5
	85	0	<5	5	5.9		1.8	5.5	6	6.9	9	11	15.5
pH (SU)	85	0	<6	5	5.9		5.1	6.1	6.5	6.9	7.2	7.4	8.1
	85	0	>9	0	0		5.1	6.1	6.5	6.9	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				67	79	96	116	136	173	220
Water Temperature (°C)	85	0	>32	0	0		1.8	7.4	12.8	22.4	26.7	28.5	31.4
Other													
TSS (mg/L)	60	7	N/A				1.5	3.1	4.5	6.8	12.8	15.9	26
Turbidity (NTU)	60	0	>50	0	0		2.1	3.4	6	9.8	15	26	45
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.05	0.07	0.09	0.15	0.36
NO2 + NO3 as N	60	2	>10	0	0		0.01	0.2	0.27	0.38	0.48	0.61	0.75
TKN as N	60	1	N/A				0.2	0.39	0.52	0.69	0.89	1.16	1.78
Total Phosphorus	57	4	N/A				0.02	0.04	0.05	0.08	0.1	0.14	0.61
Metals (ug/L)													
Aluminum, total (Al)	6	0	N/A				132	132	274	405	840	912	912
Arsenic, total (As)	6	6	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	6	6	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	6	6	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	6	5	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	6	1	>1000	4	66.7		50	50	735	1600	1780	1825	1825
Lead, total (Pb)	6	6	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	6	0	>200	0	0		56	56	57	76	100	124	124
Mercury, total (Hg)	6	6	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	6	6	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	6	4	>50	0	0		10	10	10	10	19	21	21

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	55.9	4	6.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CHICOD CRK AT SR 1760 NR SIMPSON
Station #: O6450000
Latitude: 35.56149 **Longitude:** -77.23047
Agency: NCAMBNT

Hydrologic Unit Code: 03020103
Stream class: C NSW
NC stream index: 28-101

Time period: 01/22/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	22	36.7	>99.9	0	0.8	3	5.1	8.5	9.7	13
	60	0	<5	30	50	>99.9	0	0.8	3	5.1	8.5	9.7	13
pH (SU)	60	0	<6	5	8.3		5.5	6	6.2	6.4	6.8	6.9	7.7
	60	0	>9	0	0		5.5	6	6.2	6.4	6.8	6.9	7.7
Salinity (ppt)	60	0	N/A				0.02	0.04	0.05	0.07	0.08	0.09	0.12
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				66	101	123	153	178	193	245
Water Temperature (°C)	60	0	>32	0	0		1	5.9	10	16.7	23.7	25.8	28.1
Other													
Hardness (mg/L)	13	0	N/A				22	24	48	57	67	74	78
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	7.2	12	18	20
Turbidity (NTU)	60	0	>50	0	0		1.5	3.3	4.6	7.1	9.8	15.7	34
Nutrients (mg/L)													
NH3 as N	60	24	N/A				0.02	0.02	0.02	0.02	0.05	0.15	0.63
NO2 + NO3 as N	60	17	N/A				0.02	0.02	0.02	0.12	0.42	0.81	1.1
TKN as N	60	0	N/A				0.4	0.51	0.61	0.81	1.08	1.39	2.8
Total Phosphorus	60	0	N/A				0.05	0.07	0.1	0.2	0.31	0.49	1

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	138.2	12	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TAR RIV AT SR 1565 NR GRIMESLAND
Station #: O6500000
Latitude: 35.57404 **Longitude:** -77.17542
Agency: NCAMBNT

Hydrologic Unit Code: 03020103
Stream class: B NSW
NC stream index: 28-(99.5)

Time period: 01/22/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	2	3.4		0.3	5.3	5.8	7.3	9.6	11.3	11.9
	59	0	<5	3	5.1		0.3	5.3	5.8	7.3	9.6	11.3	11.9
pH (SU)	59	0	<6	2	3.4		5.7	6.1	6.4	6.6	6.8	7.1	8
	59	0	>9	0	0		5.7	6.1	6.4	6.6	6.8	7.1	8
Salinity (ppt)	59	0	N/A				0.02	0.03	0.04	0.05	0.07	0.1	1.77
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				69	92	105	123	157	221	3277
Water Temperature (°C)	59	0	>32	0	0		3.4	6.9	11.1	18.4	25.9	29.5	31.2
Other													
Hardness (mg/L)	14	0	N/A				27	27	30	32	36	42	44
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	8	12	24.2	32
Turbidity (NTU)	59	0	>50	1	1.7		2.3	4.3	6.2	7.7	11	23	70
Nutrients (mg/L)													
NH3 as N	58	6	N/A				0.02	0.02	0.03	0.04	0.07	0.09	0.2
NO2 + NO3 as N	58	1	N/A				0.02	0.25	0.39	0.48	0.58	0.68	0.81
TKN as N	58	0	N/A				0.42	0.48	0.56	0.64	0.74	0.8	2.1
Total Phosphorus	58	0	N/A				0.06	0.07	0.1	0.12	0.15	0.18	0.46

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
59	51.8	5	8.5

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GRINDLE CRK AT SR 1427 NR BETHEL
Station #: O6700000
Latitude: 35.76324 **Longitude:** -77.37805
Agency: TPBA

Hydrologic Unit Code: 03020103
Stream class: C NSW
NC stream index: 28-100

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	79	0	<4	4	5.1		3.3	5	6.9	8.7	10.3	11.5	15.8
	79	0	<5	7	8.9		3.3	5	6.9	8.7	10.3	11.5	15.8
pH (SU)	79	0	<6	13	16.5	95	5.1	5.7	6.4	6.7	6.8	7.3	7.7
	79	0	>9	0	0		5.1	5.7	6.4	6.7	6.8	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	79	0	N/A				90	134	160	175	195	213	242
Water Temperature (°C)	79	0	>32	0	0		3.8	9.1	13.4	20.8	24.6	27.5	30.1

Other													
TSS (mg/L)	57	6	N/A				2.5	3.1	4	6.1	12.5	84.8	348
Turbidity (NTU)	57	0	>50	5	8.8		2.1	5	6.8	9.8	15.5	52	230

Nutrients (mg/L)													
NH3 as N	57	0	N/A				0.02	0.04	0.06	0.08	0.11	0.24	0.48
NO2 + NO3 as N	57	0	N/A				0.06	0.24	0.53	0.9	1.85	2.35	3.82
TKN as N	57	1	N/A				0.2	0.38	0.53	0.71	1.04	1.88	19.44
Total Phosphorus	54	2	N/A				0.02	0.03	0.06	0.08	0.11	0.63	7.8

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
57	108.9	11	19.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GRINDLE CRK AT US 264 AT PACTOLUS
Station #: O6798000
Latitude: 35.62426 **Longitude:** -77.22118
Agency: TPBA

Hydrologic Unit Code: 03020103
Stream class: C NSW
NC stream index: 28-100

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4.1	6.8	7.5	8.3	9.8	10.7	14.2
	85	0	<5	2	2.4		4.1	6.8	7.5	8.3	9.8	10.7	14.2
pH (SU)	85	0	<6	22	25.9	> 99.9	3.6	4.9	5.9	6.5	6.9	7.5	8.6
	85	0	>9	0	0		3.6	4.9	5.9	6.5	6.9	7.5	8.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				59	108	140	157	174	183	206
Water Temperature (°C)	85	0	>32	0	0		3.7	8	12.4	18.6	22.2	25	27.2

Other													
TSS (mg/L)	60	8	N/A				1.3	3.1	3.5	5	8.9	26.2	153
Turbidity (NTU)	60	0	>50	1	1.7		2.5	3.7	5.3	9	12.8	26	110

Nutrients (mg/L)													
NH3 as N	60	0	N/A				0.01	0.04	0.06	0.08	0.13	0.25	0.39
NO2 + NO3 as N	60	0	N/A				0.54	0.74	0.96	1.17	1.48	1.79	2.61
TKN as N	60	0	N/A				0.27	0.38	0.54	0.73	0.99	1.31	2.49
Total Phosphorus	57	2	N/A				0.02	0.03	0.04	0.06	0.09	0.13	0.53

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)			
# results:	Geomean:	# > 400:	% > 400: %Conf:
59	121.2	11	18.6

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FLAT SWAMP AT SR 1159 THIRD ST AT ROBERSONVILLE

Station #: O7000000

Hydrologic Unit Code: 03020103

Latitude: 35.81602

Longitude: -77.26421

Stream class: C Sw NSW

Agency: TPBA

NC stream index: 28-103-2

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				0.2	0.6	1.4	4	6.8	10.5	13
pH (SU)	85	0	<4.3	0	0		4.6	5.6	6.1	6.3	6.6	6.8	7.6
	85	0	>9	0	0		4.6	5.6	6.1	6.3	6.6	6.8	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				75	92	118	135	150	175	530
Water Temperature (°C)	85	0	>32	0	0		1.7	7.3	12.4	19.4	23.4	25.9	27.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	4	6.7		4.1	5.7	8.7	12	18.8	34.5	400
Nutrients (mg/L)													
NH3 as N	60	0	N/A				0.02	0.03	0.06	0.1	0.18	0.46	0.65
NO2 + NO3 as N	60	6	N/A				0.01	0.01	0.13	0.37	0.78	1.06	2.19
TKN as N	60	0	N/A				0.32	0.57	0.73	0.99	1.35	2.25	3.29
Total Phosphorus	57	2	N/A				0.02	0.03	0.05	0.08	0.18	0.37	0.74
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	162.6	17	28.3	92.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FLAT SWAMP AT SR 1157 NR ROBERSONVILLE

Station #: O7100000

Hydrologic Unit Code: 03020103

Latitude: 35.78183

Longitude: -77.25683

Stream class: C Sw NSW

Agency: TPBA

NC stream index: 28-103-2

Time period: 01/23/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	81	0	N/A				0.2	1.3	3.1	5.7	7.2	10.5	13.6
pH (SU)	81	0	<4.3	0	0		4.9	5.8	6.3	6.8	7	7.2	7.7
	81	0	>9	0	0		4.9	5.8	6.3	6.8	7	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	81	0	N/A				84	121	166	228	316	434	845
Water Temperature (°C)	81	0	>32	0	0		2.6	7.6	12.3	20	23.2	25.9	26.9
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	57	0	>50	0	0		3.4	5.8	8.4	13	15.5	20.2	45
Nutrients (mg/L)													
NH3 as N	57	0	N/A				0.02	0.04	0.07	0.11	0.22	0.31	0.58
NO2 + NO3 as N	57	1	N/A				0.01	0.12	0.32	0.59	0.98	1.49	2.36
TKN as N	57	0	N/A				0.37	0.62	0.75	1.04	1.39	1.78	2.47
Total Phosphorus	54	1	N/A				0.02	0.04	0.07	0.11	0.25	0.56	1.02
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
57	149.8	13	22.8	65.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TRANTERS CRK AT SR 1403 NR WASHINGTON

Station #: O7300000

Hydrologic Unit Code: 03020103

Latitude: 35.56297

Longitude: -77.08640

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 28-103

Time period: 01/22/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				0.3	2.7	4.5	6	8	10	11.1
pH (SU)	60	0	<4.3	0	0		4.4	5.6	6	6.4	6.7	7	7.5
	60	0	>9	0	0		4.4	5.6	6	6.4	6.7	7	7.5
Salinity (ppt)	60	0	N/A				0.03	0.04	0.05	0.1	1.08	2.79	6.27
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				80	98	126	214	2012	5083	10979
Water Temperature (°C)	60	0	>32	1	1.7		3.5	6.9	11.5	18.6	25.7	29.2	32.1
Other													
Chlorophyll a (ug/L)	57	6	>40	3	5.3		1	1	2	5	18	35	160
Hardness (mg/L)	14	0	N/A				35	36	39	60	262	585	670
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	11.8	12
Turbidity (NTU)	60	0	>50	0	0		2.5	3.3	4	5.4	7.2	10.8	24
Nutrients (mg/L)													
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.04	0.07	0.1	0.19
NO2 + NO3 as N	60	6	N/A				0.02	0.02	0.04	0.1	0.18	0.28	0.58
TKN as N	60	0	N/A				0.53	0.6	0.69	0.83	0.97	1.1	2.3
Total Phosphorus	60	0	N/A				0.04	0.06	0.08	0.11	0.14	0.17	0.46

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	45.8	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PAMLICO RIV AT US 17 AT WASHINGTON

Station #: O7650000

Hydrologic Unit Code: 03020104

Latitude: 35.54321

Longitude: -77.06152

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 29-(1)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	5	6.4		0.8	5.3	6.3	8	9.7	11.2	13.2
pH (SU)	78	0	<6.8	14	17.9	97.8	6.3	6.6	6.8	7.1	7.3	7.9	8.7
	78	0	>8.5	1	1.3		6.3	6.6	6.8	7.1	7.3	7.9	8.7
Salinity (ppt)	78	0	N/A				0.02	0.04	0.06	0.38	2.69	6.22	8.84
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				66	96	144	712	4910	10910	15170
Water Temperature (°C)	78	0	>32	1	1.3		2.3	6.6	10.1	19.6	26.5	29.4	32.2
Other													
Chlorophyll a (ug/L)	77	0	>40	19	24.7	> 99.9	1	2	3	14	40	58	250
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.2	12	15.8	20
Turbidity (NTU)	78	0	>25	4	5.1		1.8	4.9	5.9	8.2	10.2	20.2	40
Nutrients (mg/L)													
NH3 as N	78	30	N/A				0.02	0.02	0.02	0.03	0.06	0.07	0.29
NO2 + NO3 as N	78	10	N/A				0.02	0.02	0.14	0.3	0.4	0.52	0.68
TKN as N	78	0	N/A				0.4	0.58	0.67	0.75	0.92	1.01	2.9
Total Phosphorus	78	0	N/A				0.05	0.07	0.1	0.13	0.15	0.18	0.42

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	24.3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PAMLICO RIV AT CM 16 NR WHICHARD BEACH

Station #: O7680000

Hydrologic Unit Code: 03020104

Latitude: 35.50791

Longitude: -77.02034

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	3	3.8		4.1	6.2	8	9.2	10.9	12.1	15.1
pH (SU)	78	0	<6.8	11	14.1	84.6	6.3	6.7	7.1	7.6	8	8.5	9.1
	78	0	>8.5	6	7.7		6.3	6.7	7.1	7.6	8	8.5	9.1
Salinity (ppt)	78	0	N/A				0.02	0.08	0.51	1.87	5.21	9.57	11.5
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				70	178	985	3418	9267	16358	19393
Water Temperature (°C)	78	0	>32	1	1.3		2.8	6.8	10.4	20.2	26.2	30	32.2
Other													
Chlorophyll a (ug/L)	77	1	>40	21	27.3	> 99.9	1	2	6	28	44	71	132
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.2	7.1	14	16
Turbidity (NTU)	78	0	>25	4	5.1		2.1	4.7	6.4	8.4	11	16.2	30
Nutrients (mg/L)													
NH3 as N	78	48	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.3
NO2 + NO3 as N	78	23	N/A				0.02	0.02	0.02	0.09	0.3	0.42	0.67
TKN as N	78	0	N/A				0.51	0.6	0.7	0.8	0.94	1.1	1.5
Total Phosphorus	78	0	N/A				0.04	0.06	0.09	0.11	0.15	0.2	0.33

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	14.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CHOCOWINITY BAY ABOVE SILAS CRK NR WHICHARD BEACH
Station #: O7710000 **Hydrologic Unit Code:** 03020104
Latitude: 35.50310 **Longitude:** -77.04231 **Stream class:** SC NSW
Agency: NCAMBNT **NC stream index:** 29-6-(1)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	1	1.3		4.6	7.2	8.4	9.8	11.6	13.2	18.2
pH (SU)	78	0	<6.8	2	2.6		6.5	7	7.5	8	8.3	8.6	9
	78	0	>8.5	9	11.5	62.1	6.5	7	7.5	8	8.3	8.6	9
Salinity (ppt)	78	0	N/A				0.14	0.55	1.56	3.31	7.12	10.41	12.54
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				294	1044	2922	5984	12462	17694	20998
Water Temperature (°C)	78	0	>32	0	0		2.3	6.9	10.3	20.4	26.4	30.7	32
Other													
Chlorophyll a (ug/L)	77	0	>40	31	40.3	> 99.9	2	9	19	33	49	60	120
TSS (mg/L)	20	3	N/A				6.2	6.2	7	12	13.8	15	24
Turbidity (NTU)	78	0	>25	1	1.3		1.9	4	6.3	8.3	12	16	28
Nutrients (mg/L)													
NH3 as N	78	66	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.3
NO2 + NO3 as N	78	47	N/A				0.02	0.02	0.02	0.02	0.11	0.32	0.52
TKN as N	78	0	N/A				0.58	0.67	0.76	0.91	1	1.11	1.5
Total Phosphorus	78	0	N/A				0.03	0.06	0.09	0.11	0.17	0.29	0.45

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	10.3	1	1.3	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON MID CHANNEL
Station #: O787000C **Hydrologic Unit Code:** 03020104
Latitude: 35.46183 **Longitude:** -76.95956 **Stream class:** SB NSW
Agency: NCAMBNT **NC stream index:** 29-(5)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	0	0		5.9	7.3	8.3	9.8	11.4	12.4	14.7
pH (SU)	78	0	<6.8	4	5.1		6.1	6.9	7.6	8	8.3	8.5	9.1
	78	0	>8.5	5	6.4		6.1	6.9	7.6	8	8.3	8.5	9.1
Salinity (ppt)	78	0	N/A				0.03	1.02	2.59	5.2	9.78	12.35	14.71
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				82	1897	4733	9251	16682	20722	24292
Water Temperature (°C)	78	0	>32	1	1.3		2.1	6.9	10.2	20.2	26	29.7	32.3
Other													
Chlorophyll a (ug/L)	77	0	>40	14	18.2	98	2	7	16	24	34	50	130
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8.3	12	15	16
Turbidity (NTU)	78	1	>25	0	0		1	3.3	4.8	6.4	9.5	12.1	25
Nutrients (mg/L)													
NH3 as N	78	61	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.24
NO2 + NO3 as N	78	45	N/A				0.02	0.02	0.02	0.02	0.11	0.28	0.56
TKN as N	78	0	N/A				0.42	0.63	0.68	0.76	0.9	0.99	1.8
Total Phosphorus	78	0	N/A				0.03	0.04	0.06	0.09	0.13	0.19	0.3

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	5	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
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Location: PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON N SHORE
Station #: O787000N **Hydrologic Unit Code:** 03020104
Latitude: 35.48094 **Longitude:** -76.95642 **Stream class:** SB NSW
Agency: NCAMBNT **NC stream index:** 29-10-(3)

Time period: 01/13/2009 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	<5	0	0		5.8	6.2	7.1	8.6	10.7	11.9	14.9
pH (SU)	38	0	<6.8	8	21.1	96.8	6	6.6	6.9	7.6	7.8	8.2	8.7
	38	0	>8.5	1	2.6		6	6.6	6.9	7.6	7.8	8.2	8.7
Salinity (ppt)	38	0	N/A				0.05	0.6	1.7	4.91	10.71	13.1	14.78
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				117	1126	3140	8748	18145	21854	24417
Water Temperature (°C)	38	0	>32	0	0		2.5	6.2	9.3	20.4	26.1	29.2	31.2
Other													
TSS (mg/L)	6	2	N/A				6.2	6.2	6.2	13.5	15	18	18
Turbidity (NTU)	38	0	>25	1	2.6		1.4	4.4	6.1	8.8	12	16	31
Nutrients (mg/L)													
NH3 as N	38	31	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.1
NO2 + NO3 as N	38	24	N/A				0.02	0.02	0.02	0.02	0.26	0.36	0.52
TKN as N	38	0	N/A				0.56	0.63	0.69	0.78	0.88	1	1.2
Total Phosphorus	38	0	N/A				0.05	0.06	0.08	0.1	0.15	0.2	0.39

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
38	9.7	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
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Location: PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON S SHORE
Station #: O787000S **Hydrologic Unit Code:** 03020104
Latitude: 35.44533 **Longitude:** -76.96217 **Stream class:** SB NSW
Agency: NCAMBNT **NC stream index:** 29-9

Time period: 01/13/2009 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	<5	0	0		5.7	6.4	8.1	9.3	10.9	12	14.7
pH (SU)	38	0	<6.8	2	5.3		6.4	7	7.4	7.8	8.1	8.3	8.6
	38	0	>8.5	1	2.6		6.4	7	7.4	7.8	8.1	8.3	8.6
Salinity (ppt)	38	0	N/A				0.07	0.88	1.96	5.23	10.33	12.56	14.65
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				155	1657	3613	9284	17561	21021	24200
Water Temperature (°C)	38	0	>32	0	0		1.8	6.1	9.2	20.3	26.4	29	30.6
Other													
Chlorophyll a (ug/L)	1	0	>40	1	100		53	53	53	53	53	53	53
TSS (mg/L)	7	1	N/A				6.2	6.2	8.5	10	14	15	15
Turbidity (NTU)	38	0	>25	1	2.6		1.6	4.5	5.4	7.8	11.2	14	32
Nutrients (mg/L)													
NH3 as N	38	31	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.08
NO2 + NO3 as N	38	25	N/A				0.02	0.02	0.02	0.02	0.25	0.44	0.54
TKN as N	38	0	N/A				0.56	0.65	0.7	0.77	0.9	0.97	1.2
Total Phosphorus	38	0	N/A				0.04	0.05	0.07	0.1	0.13	0.2	0.23

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
38	5.1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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Location: BATH CRK AT NC 92 NR BATH

Station #: O8495000

Hydrologic Unit Code: 03020104

Latitude: 35.47745

Longitude: -76.81692

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-19-(5.5)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	0	0		5.6	6.8	7.8	9.2	10.9	12.8	15
pH (SU)	78	0	<6.8	0	0		7.2	7.4	7.7	7.9	8.2	8.4	8.8
	78	0	>8.5	3	3.8		7.2	7.4	7.7	7.9	8.2	8.4	8.8
Salinity (ppt)	78	0	N/A				1.49	3.43	6.55	9.76	13.53	14.98	18.09
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				2747	6208	11401	16678	22530	24701	29294
Water Temperature (°C)	78	0	>32	2	2.6		3.5	7.6	11.8	20.8	27.4	30	33
Other													
Chlorophyll a (ug/L)	77	0	>40	6	7.8		5	6	11	18	28	37	173
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	9.1	12	14	14
Turbidity (NTU)	78	1	>25	2	2.6		1	2.4	3.8	5.5	8.6	12	65
Nutrients (mg/L)													
NH3 as N	78	72	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	78	60	N/A				0.02	0.02	0.02	0.02	0.02	0.08	0.23
TKN as N	78	0	N/A				0.46	0.56	0.62	0.72	0.92	1.01	2.4
Total Phosphorus	78	0	N/A				0.03	0.03	0.04	0.06	0.13	0.18	0.32

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	7.6	2	2.6	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
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Location: PAMLICO RIV AT CM 5 NR CORE POINT
Station #: O8498000
Latitude: 35.43048 **Longitude:** -76.84144
Agency: NCAMBNT

Hydrologic Unit Code: 03020104
Stream class: SB NSW
NC stream index: 29-(5)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	0	0		6.2	7.2	8.2	9.7	11.7	12.6	15
pH (SU)	78	0	<6.8	0	0		6.9	7.4	7.6	8	8.2	8.5	9
	78	0	>8.5	6	7.7		6.9	7.4	7.6	8	8.2	8.5	9
Salinity (ppt)	78	0	N/A				1.1	2.96	5.99	8.95	12.63	14.8	17.35
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				2059	5385	10550	15414	21154	24443	28241
Water Temperature (°C)	78	0	>32	1	1.3		2.6	7.1	10.5	19.5	26.6	29.5	32.3
Other													
Chlorophyll a (ug/L)	76	0	>40	7	9.2		4	7	11	18	28	39	60
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	6.5	9.4	18.6	19
Turbidity (NTU)	78	0	>25	0	0		1.2	2.3	3.3	4.6	6.4	8.6	22
Nutrients (mg/L)													
NH3 as N	78	69	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.21
NO2 + NO3 as N	78	57	N/A				0.02	0.02	0.02	0.02	0.02	0.22	0.41
TKN as N	78	0	N/A				0.46	0.55	0.59	0.68	0.79	0.91	1.2
Total Phosphorus	78	0	N/A				0.03	0.03	0.04	0.06	0.1	0.15	0.23

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	2.1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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Location: PAMLICO RIV AT CM 4 NR GUM POINT MID CHANNEL
Station #: O865000C **Hydrologic Unit Code:** 03020104
Latitude: 35.40471 **Longitude:** -76.76707 **Stream class:** SB NSW
Agency: NCAMBNT **NC stream index:** 29-(5)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	0	0		6.7	7.5	8.1	9.1	11.2	12.4	14.8
pH (SU)	78	0	<6.8	0	0		7.1	7.6	7.9	8	8.1	8.3	8.7
	78	0	>8.5	3	3.8		7.1	7.6	7.9	8	8.1	8.3	8.7
Salinity (ppt)	78	0	N/A				1.83	5.03	8.15	10.83	14.03	15.84	18.74
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				3379	8932	14010	18366	23275	25997	30269
Water Temperature (°C)	78	0	>32	0	0		2.7	7	10.8	19.3	26.4	29.3	31
Other													
Chlorophyll a (ug/L)	77	0	>40	3	3.9		2	7	11	15	22	27	74
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.8	12	12	30
Turbidity (NTU)	78	2	>25	0	0		1	2	2.8	3.4	4.6	7	16
Nutrients (mg/L)													
NH3 as N	78	72	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	78	61	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.32
TKN as N	78	0	N/A				0.41	0.51	0.57	0.65	0.71	0.8	1.1
Total Phosphorus	78	0	N/A				0.02	0.03	0.04	0.05	0.08	0.12	0.15

Fecal Coliform Screening(#/100mL)

results: 76 **Geomean:** 1.3 **# > 400:** 0 **% > 400:** 0 **%Conf:** 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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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Location: PAMLICO RIV AT CM 4 NR GUM POINT N SHORE
Station #: O865000N **Hydrologic Unit Code:** 03020104
Latitude: 35.41285 **Longitude:** -76.76343 **Stream class:** SB NSW
Agency: NCAMBNT **NC stream index:** 29-(5)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	0	0		6.4	7.4	7.9	9.1	10.9	12.4	15.1
pH (SU)	78	0	<6.8	0	0		7.4	7.7	7.9	8	8.1	8.3	8.6
	78	0	>8.5	2	2.6		7.4	7.7	7.9	8	8.1	8.3	8.6
Salinity (ppt)	78	0	N/A				2.32	5.09	8.18	11.33	14.35	15.94	19.04
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				4255	9053	14141	19134	23758	26010	30701
Water Temperature (°C)	78	0	>32	0	0		2.6	7.1	10.8	19.5	26.2	29.3	31.2
Other													
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	8	10	12
Turbidity (NTU)	78	0	>25	0	0		1.1	2.1	3	3.7	5	7.1	15
Nutrients (mg/L)													
NH3 as N	78	73	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	78	61	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.27
TKN as N	78	0	N/A				0.39	0.51	0.55	0.61	0.69	0.86	1.3
Total Phosphorus	78	0	N/A				0.02	0.03	0.04	0.05	0.08	0.11	0.16

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	1.7	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
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Location: PAMLICO RIV AT CM 4 NR GUM POINT S SHORE

Station #: O865000S

Hydrologic Unit Code: 03020104

Latitude: 35.38992

Longitude: -76.77234

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	0	0		5.5	6.8	7.5	8.7	10.5	12.2	14.2
pH (SU)	78	0	<6.8	0	0		7.1	7.5	7.7	7.9	8	8.2	8.5
	78	0	>8.5	0	0		7.1	7.5	7.7	7.9	8	8.2	8.5
Salinity (ppt)	78	0	N/A				1.02	4.99	6.7	9.3	13.13	14.96	18.19
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				1905	8864	11758	15906	21886	24654	29554
Water Temperature (°C)	78	0	>32	0	0		2.1	6.5	10.7	19.1	25.8	28.8	30.6
Other													
TSS (mg/L)	20	3	N/A				6.2	6.2	6.8	8.8	10	17	27
Turbidity (NTU)	78	0	>25	0	0		1.5	2.7	4.5	5.9	7.7	13	23
Nutrients (mg/L)													
NH3 as N	78	50	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.16
NO2 + NO3 as N	78	51	N/A				0.02	0.02	0.02	0.02	0.02	0.1	0.39
TKN as N	78	0	N/A				0.48	0.53	0.61	0.69	0.76	0.84	1.1
Total Phosphorus	78	0	N/A				0.03	0.04	0.05	0.07	0.11	0.14	0.21

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
76	2.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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Location: PAMLICO RIV AT HICKORY PT NR SOUTH CRK
Station #: O9059000 **Hydrologic Unit Code:** 03020104
Latitude: 35.38542 **Longitude:** -76.68372 **Stream class:** SA HQW NSW
Agency: NCAMBNT **NC stream index:** 29-(27)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<5	0	0		7	7.5	7.9	8.9	10.9	12.1	14.4
pH (SU)	78	0	<6.8	0	0		7	7.6	7.8	8	8.1	8.3	8.8
	78	0	>8.5	1	1.3		7	7.6	7.8	8	8.1	8.3	8.8
Salinity (ppt)	78	0	N/A				3.98	6.58	9.32	12.77	15.27	16.69	20.02
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				7153	11534	15974	21364	25131	27242	32108
Water Temperature (°C)	78	0	>32	0	0		1.9	7	10.6	19.2	26.2	28.9	30.5
Other													
Chlorophyll a (ug/L)	76	0	>40	1	1.3		4	5	8	12	17	24	48
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	7.2	10.4	12	13
Turbidity (NTU)	78	2	>25	0	0		1	1.8	2.5	3.2	4.1	6.3	8.6
Nutrients (mg/L)													
NH3 as N	78	73	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.08
NO2 + NO3 as N	78	62	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.2
TKN as N	78	0	N/A				0.39	0.45	0.52	0.58	0.65	0.74	0.88
Total Phosphorus	78	0	N/A				0.02	0.03	0.03	0.04	0.06	0.08	0.1

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf
76	1.2	0	0		1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Resources
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Location: PUNGO CRK AT NC 92 AT SIDNEY CROSSROADS

Station #: O9750500

Hydrologic Unit Code: 03020104

Latitude: 35.49938

Longitude: -76.67239

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 29-34-35

Time period: 01/27/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	1	1.9		4.1	5.6	6.7	8.8	10.3	11.8	13.4
pH (SU)	53	0	<6.8	5	9.4		6.1	6.7	7.3	7.6	7.8	8	8.4
	53	0	>8.5	0	0		6.1	6.7	7.3	7.6	7.8	8	8.4
Salinity (ppt)	54	0	N/A				1	5.65	8.81	11.62	13.66	15.18	17.42
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				1866	9982	15196	19568	22724	25018	28336
Water Temperature (°C)	54	0	>32	0	0		3.3	6.5	11.5	17.8	25.8	29.2	31.2
Other													
Chlorophyll a (ug/L)	52	0	>40	6	11.5	57.8	1	9	14	22	32	43	130
TSS (mg/L)	18	4	N/A				6.2	6.2	8.4	12	17.2	18.8	26
Turbidity (NTU)	53	0	>25	0	0		1.2	2.6	3.5	5.1	8.2	12.2	22
Nutrients (mg/L)													
NH3 as N	54	41	N/A				0.02	0.02	0.02	0.02	0.02	0.14	0.21
NO2 + NO3 as N	54	34	N/A				0.02	0.02	0.02	0.02	0.02	0.55	1.9
TKN as N	54	0	N/A				0.52	0.69	0.77	0.94	1.1	1.25	2
Total Phosphorus	53	0	N/A				0.02	0.03	0.04	0.05	0.09	0.14	0.22

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
53	11.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PANTEGO CRK AT NC 92 AT BELHAVEN

Station #: O9751000

Hydrologic Unit Code: 03020104

Latitude: 35.54248

Longitude: -76.63630

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 29-34-34-(2)

Time period: 01/27/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<5	5	8.3		3.8	5.5	6.4	9.1	10	11.9	12.7
pH (SU)	59	0	<6.8	11	18.6	96.9	5.4	6.6	6.9	7.5	7.7	8	8.5
	59	0	>8.5	0	0		5.4	6.6	6.9	7.5	7.7	8	8.5
Salinity (ppt)	60	0	N/A				2.48	4.55	7.36	10.88	12.74	15.59	17.18
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				4532	8135	12826	18442	21306	25626	27961
Water Temperature (°C)	60	0	>32	0	0		3.1	6.6	12.1	20	27	29.2	31.6
Other													
Chlorophyll a (ug/L)	58	0	>40	9	15.5	87.8	1	6	11	16	28	51	87
TSS (mg/L)	20	4	N/A				6.2	6.3	7.6	9	15.8	29.5	45
Turbidity (NTU)	59	0	>25	2	3.4		2	3.1	4.4	6.2	8.4	16	37
Nutrients (mg/L)													
NH3 as N	60	24	N/A				0.02	0.02	0.02	0.02	0.1	0.15	0.29
NO2 + NO3 as N	60	15	N/A				0.02	0.02	0.02	0.06	0.31	1.29	2.6
TKN as N	60	0	N/A				0.61	0.7	0.81	0.95	1.1	1.39	1.7
Total Phosphorus	59	0	N/A				0.03	0.03	0.04	0.06	0.09	0.12	0.19

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	13	1	1.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: VAN SWAMP AT NC 32 NR HOKE

Station #: O9755000

Hydrologic Unit Code: 03020104

Latitude: 35.73038

Longitude: -76.74653

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 29-34-34-(1)

Time period: 01/08/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	N/A				0.9	2.7	4.9	6.5	7.3	8.9	10.1
pH (SU)	60	0	<4.3	52	86.7	> 99.9	3	3.2	3.4	3.6	3.8	4.6	5.6
	60	0	>9	0	0		3	3.2	3.4	3.6	3.8	4.6	5.6
Salinity (ppt)	60	0	N/A				0.01	0.04	0.05	0.06	0.07	0.09	0.13
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				65	100	125	144	159	188	278
Water Temperature (°C)	60	0	>32	0	0		2.5	7.2	10.6	15.8	20.9	23	24.7
Other													
Hardness (mg/L)	13	0	N/A				14	14	16	16	25	30	30
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	11.8	12	18
Turbidity (NTU)	60	0	>50	1	1.7		1.2	1.8	2.4	6	13	20	60
Nutrients (mg/L)													
NH3 as N	60	11	N/A				0.02	0.02	0.04	0.13	0.39	0.94	2.2
NO2 + NO3 as N	60	16	N/A				0.02	0.02	0.02	0.09	0.36	2.5	6.9
TKN as N	60	0	N/A				0.71	0.93	1.1	1.4	1.87	2.69	5.1
Total Phosphorus	60	15	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.23

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	28.7	3	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal A at Allen Rd and South Lake Rd at Pungo NWR
Station #: O9757230 **Hydrologic Unit Code:** 03020104
Latitude: 35.68840 **Longitude:** -76.52530 **Stream class:** C Sw NSW
Agency: NCS PST **NC stream index:** 29-34-2-1

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				2	3	4.5	5.8	7.5	8.4	9
pH (SU)	38	0	<4.3	31	81.6	> 99.9	2.3	3.1	3.5	3.8	3.9	4.7	5.4
	38	0	>9	0	0		2.3	3.1	3.5	3.8	3.9	4.7	5.4
Salinity (ppt)	38	0	N/A				0.02	0.02	0.03	0.05	0.06	0.06	0.08
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				73	74	88	118	134	148	179
Water Temperature (°C)	38	0	>32	0	0		4	6.3	10.8	17.8	24.4	28	30.8
Other													
TSS (mg/L)	38	27	N/A				6.2	6.2	6.2	6.2	7.2	16.1	490
Nutrients (mg/L)													
NH3 as N	38	1	N/A				0.02	0.04	0.08	0.11	0.21	0.46	0.9
NO2 + NO3 as N	38	29	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
TKN as N	38	0	N/A				1.6	1.79	1.9	2.1	2.4	3.01	6.8
Total Phosphorus	38	0	N/A				0.03	0.04	0.05	0.07	0.09	0.16	0.82

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
38	9.3	1	2.6	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal A beside Allen Rd NW of Rose Acres Farms nr Ponzer
Station #: O9757250 **Hydrologic Unit Code:** 03020104
Latitude: 35.65190 **Longitude:** -76.53390 **Stream class:** C Sw NSW
Agency: NCS PST **NC stream index:** 29-34-2-1

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				2	2.2	4.5	6.3	7.9	9.1	9.9
pH (SU)	38	0	<4.3	32	84.2	> 99.9	3	3.3	3.6	3.7	3.8	4.5	4.7
	38	0	>9	0	0		3	3.3	3.6	3.7	3.8	4.5	4.7
Salinity (ppt)	38	0	N/A				0.02	0.03	0.04	0.05	0.06	0.07	0.09
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				76	87	99	118	144	165	192
Water Temperature (°C)	38	0	>32	0	0		3.9	6.3	10.6	16.9	23.9	26	28.8
Other													
TSS (mg/L)	38	34	N/A				6.2	6.2	6.2	6.2	6.2	6.6	14
Nutrients (mg/L)													
NH3 as N	38	0	N/A				0.04	0.06	0.07	0.1	0.17	0.96	1.2
NO2 + NO3 as N	38	19	N/A				0.02	0.02	0.02	0.02	0.1	0.33	1.4
TKN as N	38	0	N/A				1.6	1.7	1.87	2	2.4	3.03	3.5
Total Phosphorus	38	0	N/A				0.02	0.03	0.04	0.05	0.07	0.24	0.33

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
38	48.6	6	15.8	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal A beside Allen Rd SW of Rose Acres Farms nr Ponzer
Station #: O9757270 **Hydrologic Unit Code:** 03020104
Latitude: 35.63460 **Longitude:** -76.53790 **Stream class:** C Sw NSW
Agency: NCS PST **NC stream index:** 29-34-2-1

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				4.1	4.9	5.8	7.4	8.7	10.3	11.3
pH (SU)	38	0	<4.3	31	81.6	> 99.9	3.4	3.5	3.6	3.9	4.1	5.8	6.2
	38	0	>9	0	0		3.4	3.5	3.6	3.9	4.1	5.8	6.2
Salinity (ppt)	38	0	N/A				0.03	0.03	0.04	0.05	0.06	0.07	0.09
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				78	87	104	124	143	162	189
Water Temperature (°C)	38	0	>32	0	0		3.5	6.1	10.8	17.5	24.3	27	30.9
Nutrients (mg/L)													
NH3 as N	38	0	N/A				0.02	0.03	0.08	0.11	0.21	0.78	1.4
NO2 + NO3 as N	38	2	N/A				0.02	0.02	0.05	0.1	0.65	1.79	6.3
TKN as N	38	0	N/A				1.6	1.6	1.87	2.1	2.43	3.26	4.3
Total Phosphorus	38	0	N/A				0.02	0.04	0.04	0.06	0.09	0.28	0.9

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal B beside Boerma Rd NE of Rose Acres Farms nr Ponzer
Station #: O9757350 **Hydrologic Unit Code:** 03020104
Latitude: 35.64980 **Longitude:** -76.51620 **Stream class:** C Sw NSW
Agency: NCS PST **NC stream index:** 29-34-2-2

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				1.8	2.2	3.7	5.5	8.5	10.7	11.5
pH (SU)	38	0	<4.3	24	63.2	> 99.9	3.2	3.4	3.6	4	4.5	5.3	5.5
	38	0	>9	0	0		3.2	3.4	3.6	4	4.5	5.3	5.5
Salinity (ppt)	38	0	N/A				0.03	0.03	0.03	0.04	0.04	0.05	0.06
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				79	87	93	100	112	127	137
Water Temperature (°C)	38	0	>32	0	0		3.4	5.4	8.7	16.1	22.7	24.7	26.3
Other													
TSS (mg/L)	38	27	N/A				6.2	6.2	6.2	6.2	8.8	12	23
Nutrients (mg/L)													
NH3 as N	38	0	N/A				0.03	0.08	0.17	0.23	0.54	1.2	3.3
NO2 + NO3 as N	38	16	N/A				0.02	0.02	0.02	0.02	0.1	0.52	1
TKN as N	38	0	N/A				1.7	1.9	2.18	2.35	3	3.85	7.2
Total Phosphorus	38	0	N/A				0.04	0.05	0.06	0.11	0.17	0.33	0.78

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
38	48.2	2	5.3	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Unnamed Canal to Canal B at Rose Acres Farms nr Ponzer
Station #: O9757359 **Hydrologic Unit Code:** 03020104
Latitude: 35.64080 **Longitude:** -76.51850 **Stream class:** C Sw NSW
Agency: NCS PST **NC stream index:** 29-34-2-2

Time period: 01/06/2009 to 07/06/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	34	0	N/A				2	2.4	3.6	6	9.5	12.1	13.2
pH (SU)	34	0	<4.3	0	0		5	5.4	5.6	6	6.4	6.8	7.1
	34	0	>9	0	0		5	5.4	5.6	6	6.4	6.8	7.1
Salinity (ppt)	34	0	N/A				0.05	0.06	0.07	0.09	0.1	0.12	0.15
Spec. conductance (umhos/cm at 25°C)	34	0	N/A				115	150	168	186	226	250	306
Water Temperature (°C)	34	0	>32	0	0		0.8	4.9	8.3	15.6	21.7	24.2	26.7
Other													
TSS (mg/L)	34	7	N/A				6.2	6.2	6.2	14.5	34.5	80	110
Nutrients (mg/L)													
NH3 as N	34	0	N/A				0.02	0.02	0.12	0.24	0.53	0.79	1.4
NO2 + NO3 as N	34	6	N/A				0.02	0.02	0.13	2.45	5.77	11.5	18
TKN as N	34	0	N/A				1.3	1.65	1.8	2.4	2.92	8.6	15
Total Phosphorus	34	0	N/A				0.06	0.07	0.11	0.24	0.5	1.3	2.3

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
34	138.9	11	32.4	93.8

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal B beside Boerma Rd SE of Rose Acres Farms nr Ponzer
Station #: O9757370 **Hydrologic Unit Code:** 03020104
Latitude: 35.63190 **Longitude:** -76.52040 **Stream class:** C Sw NSW
Agency: NCS PST **NC stream index:** 29-34-2-2

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				3	4.5	4.9	5.9	9.2	10.6	11.6
pH (SU)	38	0	<4.3	17	44.7	> 99.9	3.5	3.7	3.9	4.4	5	6.1	6.6
	38	0	>9	0	0		3.5	3.7	3.9	4.4	5	6.1	6.6
Salinity (ppt)	38	0	N/A				0.03	0.03	0.04	0.04	0.05	0.07	0.1
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				78	85	96	113	133	160	207
Water Temperature (°C)	38	0	>32	0	0		3.3	5.8	9.5	16.5	24.1	27.1	29.5
Other													
TSS (mg/L)	38	24	N/A				6.2	6.2	6.2	6.2	10.2	17.1	40
Nutrients (mg/L)													
NH3 as N	38	0	N/A				0.07	0.1	0.14	0.22	0.35	0.83	1.4
NO2 + NO3 as N	38	6	N/A				0.02	0.02	0.05	0.27	1.25	2.66	5
TKN as N	38	0	N/A				1.7	1.9	2.18	2.4	2.75	3.85	4.7
Total Phosphorus	38	0	N/A				0.04	0.05	0.07	0.1	0.14	0.42	0.6

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
38	91.2	6	15.8	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal B at NC 45 nr Ponzer

Station #: O9757395

Latitude: 35.60040

Agency: NCS PST

Longitude: -76.52920

Hydrologic Unit Code: 03020104

Stream class: C Sw NSW

NC stream index: 29-34-2-2

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				3.4	3.6	4.5	5.6	8.6	10.4	11.3
pH (SU)	38	0	<4.3	14	36.8	> 99.9	3.1	3.7	4.1	4.5	5.4	6.3	6.8
	38	0	>9	0	0		3.1	3.7	4.1	4.5	5.4	6.3	6.8
Salinity (ppt)	38	0	N/A				0.03	0.04	0.05	0.06	0.26	0.69	2.75
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				93	103	112	150	506	1299	5003
Water Temperature (°C)	38	0	>32	0	0		2.9	5.6	10	18.8	25.8	28.2	30.3
Other													
TSS (mg/L)	38	30	N/A				6.2	6.2	6.2	6.2	6.8	12	12
Nutrients (mg/L)													
NH3 as N	38	0	N/A				0.06	0.09	0.12	0.19	0.27	0.37	0.44
NO2 + NO3 as N	38	2	N/A				0.02	0.06	0.12	0.28	1.13	2.3	5.8
TKN as N	38	0	N/A				1.3	1.69	1.87	2.2	2.32	2.71	4.1
Total Phosphorus	38	0	N/A				0.04	0.05	0.06	0.11	0.14	0.16	0.3

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
38	68.3	5	13.2	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal D beside DeHoog Rd at Pungo NWR
Station #: O9757540
Latitude: 35.65680 **Longitude:** -76.47840
Agency: NCS PST

Hydrologic Unit Code: 03020104
Stream class: C Sw NSW
NC stream index: 29-34-2-5

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				2.7	3.1	3.7	4.9	7	8.9	9.5
pH (SU)	38	0	<4.3	38	100	> 99.9	3	3.4	3.4	3.6	3.7	3.8	3.9
	38	0	>9	0	0		3	3.4	3.4	3.6	3.7	3.8	3.9
Salinity (ppt)	38	0	N/A				0.04	0.04	0.05	0.05	0.06	0.07	0.07
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				100	107	118	130	147	156	160
Water Temperature (°C)	38	0	>32	0	0		3.4	5.6	9	17.3	24.8	29.4	30.5
Nutrients (mg/L)													
NH3 as N	38	0	N/A				0.04	0.08	0.11	0.17	0.25	0.44	0.75
NO2 + NO3 as N	38	31	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
TKN as N	38	0	N/A				2	2.1	2.48	2.85	3.02	3.5	4.2
Total Phosphorus	38	0	N/A				0.02	0.04	0.06	0.11	0.16	0.22	0.35

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: Canal D beside DeHoog Rd nr Ponzer
Station #: O9757580
Latitude: 35.60640 **Longitude:** -76.49010
Agency: NCS PST

Hydrologic Unit Code: 03020104
Stream class: C Sw NSW
NC stream index: 29-34-2-5

Time period: 01/06/2009 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	N/A				2.3	2.5	3.5	6	8.7	10.2	11.4
pH (SU)	38	0	<4.3	16	42.1	> 99.9	3.4	3.6	3.9	4.4	5.4	6	6.5
	38	0	>9	0	0		3.4	3.6	3.9	4.4	5.4	6	6.5
Salinity (ppt)	38	0	N/A				0.04	0.04	0.04	0.05	0.06	0.07	0.07
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				94	101	112	124	144	161	170
Water Temperature (°C)	38	0	>32	0	0		3.2	5.6	9.8	16.8	23.4	27.4	29
Nutrients (mg/L)													
NH3 as N	38	0	N/A				0.07	0.07	0.12	0.19	0.3	0.57	0.87
NO2 + NO3 as N	38	10	N/A				0.02	0.02	0.02	0.26	0.89	1.7	4.4
TKN as N	38	0	N/A				1.4	1.69	1.8	2	2.3	2.52	3.2
Total Phosphorus	38	0	N/A				0.03	0.05	0.05	0.07	0.11	0.2	0.32

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PUNGO RIV AT US 264 NR PONZER
Station #: O9758500
Latitude: 35.57135 **Longitude:** -76.50152
Agency: NCAMBNT

Hydrologic Unit Code: 03020104
Stream class: SB NSW
NC stream index: 29-34-(12)

Time period: 01/27/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<5	13	21.7	99.4	0	3.9	5.2	7.1	8.4	10.3	11.9
pH (SU)	59	0	<6.8	32	54.2	> 99.9	5	5.9	6.4	6.6	7	7.3	8
	59	0	>8.5	0	0		5	5.9	6.4	6.6	7	7.3	8
Salinity (ppt)	60	0	N/A				0.19	2.22	3.35	6.4	8.68	10.8	15.04
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				384	4064	6053	11238	15068	18315	24796
Water Temperature (°C)	60	0	>32	0	0		3.2	7.5	12	19.4	26.4	29.4	31.1
Other													
Chlorophyll a (ug/L)	58	4	>40	0	0		1	1	4	11	16	25	38
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.5	11.5	13.8	24
Turbidity (NTU)	59	0	>25	1	1.7		2.6	3.9	4.3	5.8	7.8	11	32
Nutrients (mg/L)													
NH3 as N	60	6	N/A				0.02	0.02	0.05	0.1	0.17	0.27	0.31
NO2 + NO3 as N	60	7	N/A				0.02	0.02	0.08	0.18	0.45	0.97	2
TKN as N	59	0	N/A				0.83	0.97	1.1	1.3	1.6	1.8	2.1
Total Phosphorus	59	0	N/A				0.03	0.04	0.05	0.06	0.08	0.1	0.3

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	48.1	4	6.8	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK MID CHANNEL
Station #: O982500C **Hydrologic Unit Code:** 03020104
Latitude: 35.36185 **Longitude:** -76.58059 **Stream class:** SA HQW NSW
Agency: NCAMBNT **NC stream index:** 29-(27)

Time period: 01/13/2009 to 12/03/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	77	0	<5	0	0		6.1	7.3	7.9	8.8	10.6	11.7	14.2
pH (SU)	77	0	<6.8	0	0		7.4	7.8	7.9	8	8.1	8.2	8.6
	77	0	>8.5	2	2.6		7.4	7.8	7.9	8	8.1	8.2	8.6
Salinity (ppt)	77	0	N/A				4.85	6.94	11.65	14.43	16.46	18.16	21.45
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				8632	12119	19640	23898	26921	29422	34182
Water Temperature (°C)	77	0	>32	0	0		1.9	6.7	10.2	19.2	26.1	28.9	30.3
Other													
Chlorophyll a (ug/L)	76	0	>40	1	1.3		4	6	7	11	16	25	80
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.2	12.8	17.9	20
Turbidity (NTU)	77	2	>25	0	0		1	2	2.5	3.3	4.7	6.6	16
Nutrients (mg/L)													
NH3 as N	77	75	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	77	62	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.17
TKN as N	77	0	N/A				0.37	0.43	0.5	0.58	0.67	0.72	1.2
Total Phosphorus	77	0	N/A				0.02	0.03	0.03	0.04	0.05	0.07	0.09

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf
75	1.1	0	0		1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK N SHORE
Station #: O982500N **Hydrologic Unit Code:** 03020104
Latitude: 35.37737 **Longitude:** -76.55960 **Stream class:** SA HQW NSW
Agency: NCAMBNT **NC stream index:** 29-(27)

Time period: 01/13/2009 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	<5	0	0		6.7	7.4	7.7	8.5	10.7	12.7	14.3
pH (SU)	38	0	<6.8	0	0		7.5	7.6	7.7	7.9	8	8.2	8.6
	38	0	>8.5	1	2.6		7.5	7.6	7.7	7.9	8	8.2	8.6
Salinity (ppt)	38	0	N/A				5.82	7.01	8.88	14.92	17.89	19.91	21.08
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				10260	12238	15256	24610	29024	31967	33638
Water Temperature (°C)	38	0	>32	0	0		2.3	6.1	8.9	20	25.8	29.1	29.6
Other													
TSS (mg/L)	6	1	N/A				6.2	6.2	6.7	7.8	13.8	16	16
Turbidity (NTU)	38	1	>25	1	2.6		1	1.7	3	3.7	5.3	7	28
Nutrients (mg/L)													
NH3 as N	38	33	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	38	32	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.16
TKN as N	38	0	N/A				0.36	0.4	0.5	0.62	0.66	0.79	0.96
Total Phosphorus	38	0	N/A				0.02	0.03	0.03	0.04	0.05	0.07	0.08

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf
38	1	0	0		1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK S SHORE
Station #: O982500S **Hydrologic Unit Code:** 03020104
Latitude: 35.34017 **Longitude:** -76.59578 **Stream class:** SA HQW NSW
Agency: NCAMBNT **NC stream index:** 29-(27)

Time period: 01/13/2009 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	38	0	<5	0	0		6.9	7.4	7.6	8.6	11.2	13.3	14
pH (SU)	38	0	<6.8	1	2.6		6.4	7.6	7.8	8	8.1	8.3	8.5
	38	0	>8.5	0	0		6.4	7.6	7.8	8	8.1	8.3	8.5
Salinity (ppt)	38	0	N/A				5.2	5.49	8.47	13.16	17.42	19.69	20.79
Spec. conductance (umhos/cm at 25°C)	38	0	N/A				9227	9727	14604	21954	28334	31650	33231
Water Temperature (°C)	38	0	>32	0	0		1.7	6.4	9.1	20.2	26.1	29.2	30.1
Other													
TSS (mg/L)	7	3	N/A				7.5	7.5	11	12	18	22	22
Turbidity (NTU)	38	1	>25	0	0		1	1.7	2.5	3.7	4.9	8.1	12
Nutrients (mg/L)													
NH3 as N	38	37	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
NO2 + NO3 as N	38	31	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.2
TKN as N	38	0	N/A				0.39	0.45	0.51	0.6	0.67	0.71	1.1
Total Phosphorus	38	0	N/A				0.02	0.03	0.03	0.04	0.05	0.06	0.08

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf
38	1.2	0	0		1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Watauga

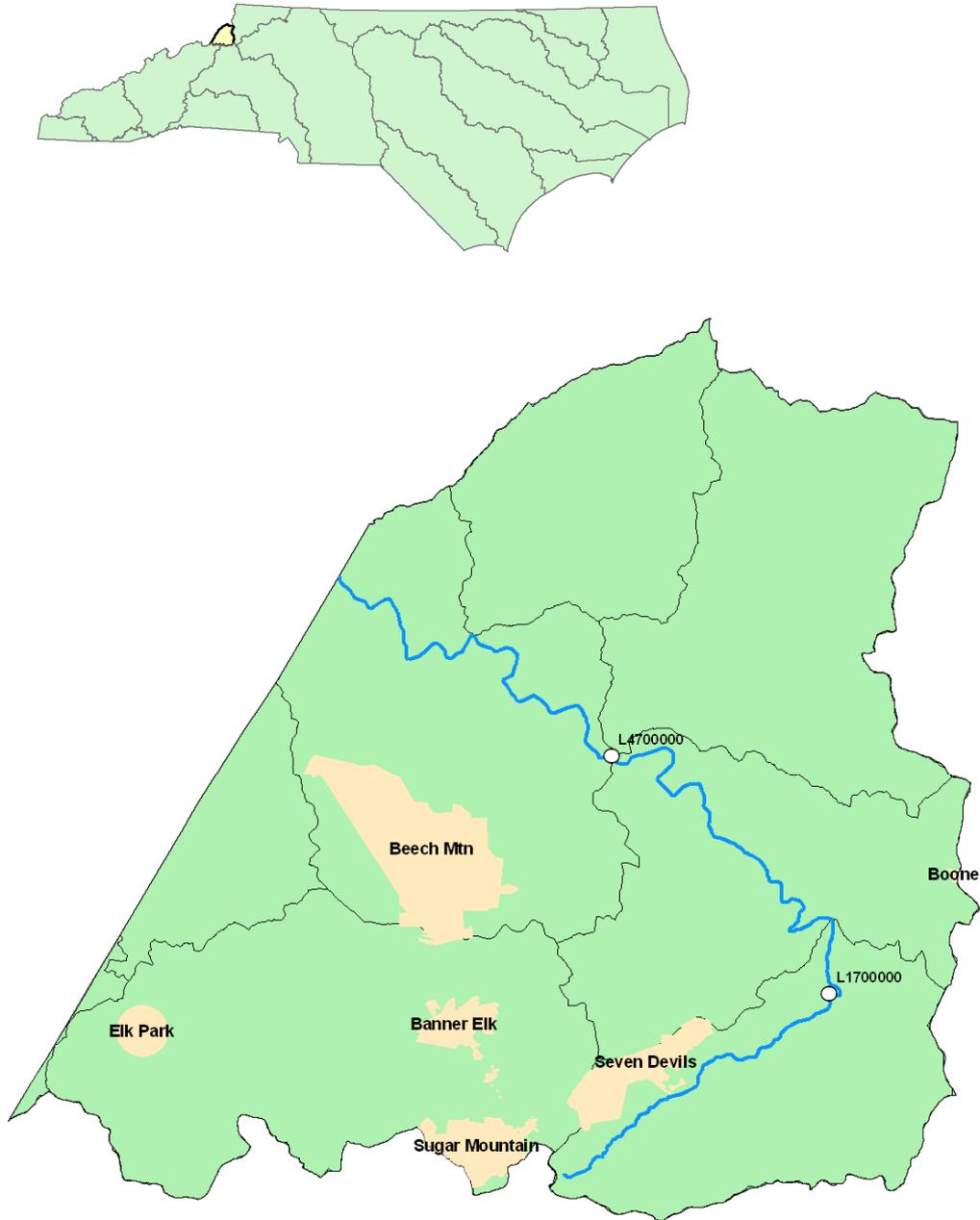


Figure WAT-1. Watauga River basin ambient monitoring station locations, 2009-2013.

Table WAT-1. AMS monitoring stations in the Watauga River basin, 2009-2013.

Station	Location	Latitude	Longitude	Stream Class
HUC 06010103: Watauga River				
L1700000	Watauga River at SR 1557 near Shulls Mill	36.1735	-81.7460	B Tr HQW
L4700000	Watauga River at SR 1121 near Sugar Grove	36.2387	-81.8229	B Tr HQW

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: WATAUGA RIV AT SR 1557 NR SHULLS MILL

Station #: L1700000

Hydrologic Unit Code: 06010103

Latitude: 36.17352

Longitude: -81.74597

Stream class: B Tr HQW

Agency: NCAMBNT

NC stream index: 8-(1)

Time period: 01/29/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<6	0	0		7.4	8.2	8.5	10	12.2	13.5	15.4
pH (SU)	58	0	<6	0	0		6.8	7.2	7.4	7.6	7.8	8	8.7
	58	0	>9	0	0		6.8	7.2	7.4	7.6	7.8	8	8.7
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				29	39	43	48	53	58	118
Water Temperature (°C)	59	0	>20	12	20.3	98.7	1.4	3.8	7.2	14.8	19.1	21.7	23.6
	59	0	>29	0	0		1.4	3.8	7.2	14.8	19.1	21.7	23.6
Other													
Hardness (mg/L)	12	0	N/A				11	11	12	14	15	16	16
TSS (mg/L)	18	16	N/A				6.2	6.2	6.2	6.2	7.7	12	12
Turbidity (NTU)	59	9	>10	1	1.7		1	1	1.2	1.9	2.6	3.8	22
Nutrients (mg/L)													
NH3 as N	59	54	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	59	0	N/A				0.07	0.17	0.22	0.26	0.32	0.39	0.55
TKN as N	59	42	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.56
Total Phosphorus	59	22	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	22.4	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: WATAUGA RIV AT SR 1121 NR SUGAR GROVE

Station #: L4700000

Hydrologic Unit Code: 06010103

Latitude: 36.23874

Longitude: -81.82290

Stream class: B Tr HQW

Agency: NCAMBNT

NC stream index: 8-(1)

Time period: 01/29/2009 to 12/10/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<6	0	0		7.4	8.2	8.9	10.1	12.4	13.5	14.2
pH (SU)	58	0	<6	0	0		6.9	7.3	7.4	7.6	8	8.5	8.8
	58	0	>9	0	0		6.9	7.3	7.4	7.6	8	8.5	8.8
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				42	53	62	74	86	94	112
Water Temperature (°C)	59	0	>20	15	25.4	99.9	1	4.2	7.1	15.6	20.7	23.8	27.8
	59	0	>29	0	0		1	4.2	7.1	15.6	20.7	23.8	27.8
Other													
Hardness (mg/L)	14	0	N/A				13	14	16	18	26	29	30
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	12	12	17
Turbidity (NTU)	59	3	>10	4	6.8		1	1.2	1.7	2.7	4.1	9.9	170
Nutrients (mg/L)													
NH3 as N	59	58	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	59	0	N/A				0.1	0.25	0.32	0.49	0.63	0.84	1.5
TKN as N	59	28	N/A				0.2	0.2	0.2	0.2	0.24	0.35	1.3
Total Phosphorus	59	25	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.45
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	51.1	10	17.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

White Oak

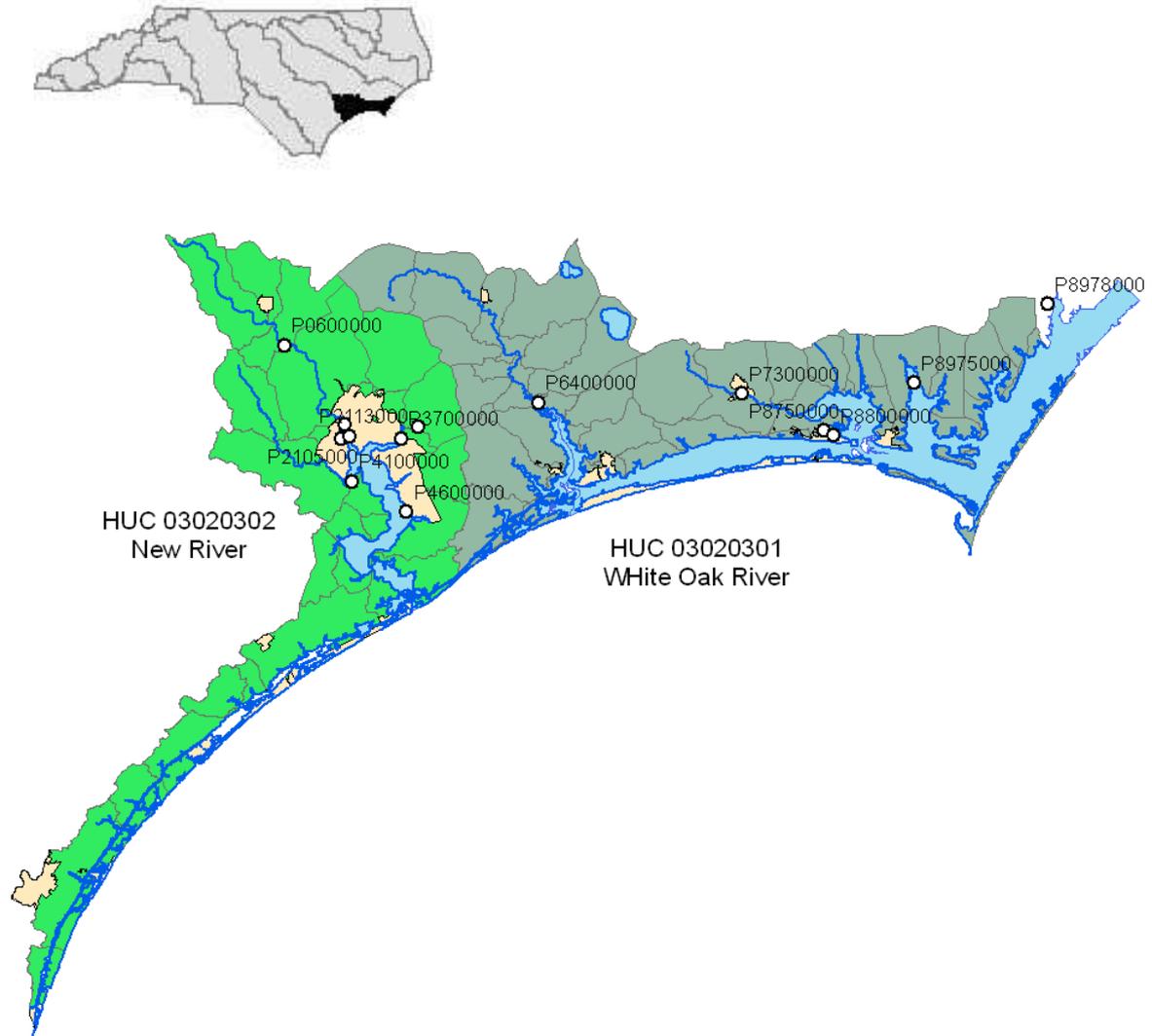


Figure WOK-1. White Oak River basin ambient monitoring station locations, 2009-2013.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table WOK-1. AMS monitoring stations in the White Oak River basin, 2009-2013.

Station	Location	Stream Class	Latitude	Longitude
White Oak River: 03020301				
P6400000	White Oak River at SR 1442 near Stella	SA HQW	34.7749	-77.1538
P7300000	Newport River at SR 1247 at Newport	C	34.7805	-76.8597
P8750000	Calico Creek at SR 1243 at Morehead City	SC HQW	34.7344	-76.7421
P8800000	Calico Creek at SR 1176 at Morehead City	SC HQW	34.7279	-76.7292
P8975000	North River at US 70 near Bettie	SA HQW	34.7890	-76.6101
P8978000	Broad Creek at US 70 near Masontown	SC	34.8798	-76.4148
New River: HUC 03020302				
P0600000	New River at SR 1314 near Gum Branch	C NSW	34.8490	-77.5196
P1200000	New River at US 17 at Jacksonville	SB HQW NSW	34.7530	-77.4343
P2105000	Brinson Creek at mouth at Jacksonville	SC NSW	34.7348	-77.4403
P2113000	New River at Wilson Bay at Center Point	SC HQW NSW	34.7385	-77.4275
P3100000	Little Northeast Creek at SR 1406 near Jacksonville	C NSW	34.7484	-77.3293
P3700000	Northeast Creek at NC 24 at Jacksonville	SC HQW NSW	34.7348	-77.3536
P4100000	Southwest Creek at the Narrows	C HQW NSW	34.6840	-77.4262
P4600000	New River Upstream of Frenchs Creek	SC NSW	34.6467	-77.3476

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW RIV AT SR 1314 NR GUM BRANCH

Station #: P0600000

Hydrologic Unit Code: 03030001

Latitude: 34.84897

Longitude: -77.51961

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 19-(1)

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<4	1	1.9		1.2	5.9	6.5	7.9	9.2	10.3	12
	53	0	<5	2	3.8		1.2	5.9	6.5	7.9	9.2	10.3	12
pH (SU)	53	0	<6	3	5.7		5.8	6.1	6.7	7.1	7.2	7.4	7.5
	53	0	>9	0	0		5.8	6.1	6.7	7.1	7.2	7.4	7.5
Salinity (ppt)	55	0	N/A				0.04	0.06	0.09	0.13	0.17	0.19	0.22
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				98	138	195	264	342	384	440
Water Temperature (°C)	54	0	>32	0	0		5.5	7.3	10.8	17.2	23	24.9	25.9
Other													
Chlorophyll a (ug/L)	55	36	>40	0	0		1	1	1	1	1	3	10
Hardness (mg/L)	13	0	N/A				51	54	78	100	150	176	180
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	7	12	24	62
Turbidity (NTU)	58	0	>50	1	1.7		1.4	2.2	2.9	3.9	7.3	14.8	110
Nutrients (mg/L)													
NH3 as N	58	16	N/A				0.02	0.02	0.02	0.03	0.06	0.15	0.38
NO2 + NO3 as N	58	0	N/A				0.02	0.86	1.2	1.55	1.9	2.2	2.8
TKN as N	58	0	N/A				0.29	0.4	0.45	0.61	0.81	1.2	1.5
Total Phosphorus	58	0	N/A				0.05	0.08	0.09	0.14	0.19	0.33	0.59
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	197.8	10	17.2										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW RIV AT US 17 AT JACKSONVILLE

Station #: P1200000

Hydrologic Unit Code: 03030001

Latitude: 34.75304

Longitude: -77.43433

Stream class: SB HQW NSW

Agency: NCAMBNT

NC stream index: 19-(10.5)

Time period: 01/27/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	64	0	<5	5	7.8		0.7	5.2	7.2	9.1	10.7	12.1	14.1
pH (SU)	66	0	<6.8	5	7.6		6.5	6.8	7.1	7.5	8	8.3	8.7
Salinity (ppt)	66	0	>8.5	3	4.5		6.5	6.8	7.1	7.5	8	8.3	8.7
Spec. conductance (umhos/cm at 25°C)	67	0	N/A				0.13	0.37	1.08	4.44	9.46	13.41	21.9
Water Temperature (°C)	67	0	N/A				267	727	2020	7836	15978	22731	33559
Water Temperature (°C)	68	0	>32	1	1.5		4.5	7.6	11.6	21.9	28.4	30.6	32.8
Other													
Chlorophyll a (ug/L)	58	2	>40	19	32.8	> 99.9	1	2	14	25	46	79	160
TSS (mg/L)	21	8	N/A				6.2	6.2	6.2	7.5	8.5	12	13
Turbidity (NTU)	58	0	>25	0	0		3.1	3.7	4.6	6	8	10.2	18
Nutrients (mg/L)													
NH3 as N	58	34	N/A				0.02	0.02	0.02	0.02	0.06	0.09	0.22
NO2 + NO3 as N	58	18	N/A				0.02	0.02	0.02	0.21	0.45	0.84	1.4
TKN as N	58	0	N/A				0.56	0.64	0.76	0.89	1	1.31	1.6
Total Phosphorus	58	0	N/A				0.04	0.06	0.08	0.1	0.17	0.22	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	55.2	2	3.4										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BRINSON CRK AT MOUTH AT JACKSONVILLE

Station #: P2105000

Hydrologic Unit Code: 03030001

Latitude: 34.73475

Longitude: -77.44025

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 19-12

Time period: 01/27/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<5	6	10.9	52.3	1.7	4.8	7.1	9.6	10.6	12.8	16.5
pH (SU)	56	0	<6.8	3	5.4		6.6	6.9	7.2	7.7	8	8.3	8.8
Salinity (ppt)	56	0	>8.5	2	3.6		6.6	6.9	7.2	7.7	8	8.3	8.8
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				0.3	1.23	2.94	6.34	9.78	13.46	20.52
Water Temperature (°C)	57	0	N/A				592	2253	5356	9124	16418	22017	32830
	58	0	>32	1	1.7		4.5	8.7	13	22.8	28	31.3	34
Other													
Chlorophyll a (ug/L)	57	1	>40	16	28.1	> 99.9	1	3	9	22	42	66	133
TSS (mg/L)	21	7	N/A				6.2	6.2	6.6	8.2	12	17.8	20
Turbidity (NTU)	58	0	>25	0	0		2.1	3.4	5.3	7.1	8.7	12	20
Nutrients (mg/L)													
NH3 as N	58	35	N/A				0.02	0.02	0.02	0.02	0.08	0.12	0.32
NO2 + NO3 as N	58	20	N/A				0.02	0.02	0.02	0.14	0.44	0.77	1.2
TKN as N	58	0	N/A				0.56	0.62	0.83	0.92	1.1	1.2	1.6
Total Phosphorus	58	0	N/A				0.04	0.07	0.1	0.12	0.19	0.22	0.34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	70.5	6	10.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW RIV AT WILSON BAY AT CENTER POINT

Station #: P2113000

Hydrologic Unit Code: 03030001

Latitude: 34.73854

Longitude: -77.42746

Stream class: SC HQW NSW

Agency: NCAMBNT

NC stream index: 19-14

Time period: 01/27/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	69	0	<5	3	4.3		2.6	5.8	6.9	8.8	11.1	13.6	16.7
pH (SU)	71	0	<6.8	2	2.8		6.6	7.1	7.4	7.8	8.1	8.5	9.1
	71	0	>8.5	5	7		6.6	7.1	7.4	7.8	8.1	8.5	9.1
Salinity (ppt)	72	0	N/A				1.68	3.25	5.61	10.15	13.98	17.17	21.94
Spec. conductance (umhos/cm at 25°C)	72	0	N/A				3106	5904	9909	17288	23339	27966	34890
Water Temperature (°C)	73	0	>32	1	1.4		3.4	8.7	12.5	22.3	28.2	31	32.2
Other													
Chlorophyll a (ug/L)	58	0	>40	17	29.3	> 99.9	1	6	13	26	46	72	230
TSS (mg/L)	21	6	N/A				6.2	6.2	6.2	8.5	11	34	82
Turbidity (NTU)	58	0	>25	1	1.7		2.3	3	3.9	6.5	7.9	12	35
Nutrients (mg/L)													
NH3 as N	58	42	N/A				0.02	0.02	0.02	0.02	0.02	0.08	0.4
NO2 + NO3 as N	58	32	N/A				0.02	0.02	0.02	0.02	0.14	0.51	1.1
TKN as N	58	0	N/A				0.54	0.66	0.76	0.88	1	1.3	1.8
Total Phosphorus	58	0	N/A				0.04	0.05	0.06	0.09	0.13	0.17	0.26
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	26.8	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: LITTLE NORTHEAST CRK AT SR 1406 NR JACKSONVILLE

Station #: P3100000

Hydrologic Unit Code: 03030001

Latitude: 34.74835

Longitude: -77.32925

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 19-16-2

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	15	27.8	> 99.9	0.5	2.6	3.7	6	7.9	9.8	11.5
pH (SU)	54	0	<5	19	35.2	> 99.9	0.5	2.6	3.7	6	7.9	9.8	11.5
	54	0	<6	7	13	70.6	5.4	5.9	6.4	6.6	6.8	6.9	7.1
Salinity (ppt)	54	0	>9	0	0		5.4	5.9	6.4	6.6	6.8	6.9	7.1
	56	0	N/A				0.02	0.04	0.07	0.11	0.27	2.01	9.45
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				64	98	151	227	420	3664	16337
Water Temperature (°C)	55	0	>32	0	0		4.8	7.1	11.3	16.6	23.2	25.8	27.1
Other													
Chlorophyll a (ug/L)	56	21	>40	0	0		1	1	1	2	3	20	37
Hardness (mg/L)	14	0	N/A				24	34	62	88	162	530	660
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	59	0	>50	0	0		2	2.8	3.8	4.6	6.2	9.4	23
Nutrients (mg/L)													
NH3 as N	59	17	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.2
NO2 + NO3 as N	59	1	N/A				0.02	0.05	0.1	0.18	0.34	0.51	1.4
TKN as N	59	0	N/A				0.24	0.34	0.39	0.51	0.64	0.73	1.1
Total Phosphorus	59	0	N/A				0.04	0.06	0.09	0.12	0.18	0.24	0.37
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	246.7	15	25.4	81.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTHEAST CRK AT NC 24 AT JACKSONVILLE

Station #: P3700000

Hydrologic Unit Code: 03030001

Latitude: 34.73479

Longitude: -77.35358

Stream class: SC HQW NSW

Agency: NCAMBNT

NC stream index: 19-16-(3.5)

Time period: 01/27/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	65	0	<5	6	9.2		2.8	4.7	6	7.4	9.4	10.8	12.3
pH (SU)	67	0	<6.8	10	14.9	87	6.2	6.6	7	7.5	7.8	8	8.5
	67	0	>8.5	0	0		6.2	6.6	7	7.5	7.8	8	8.5
Salinity (ppt)	68	0	N/A				0.47	1.57	4.63	10.35	13.99	17.5	22.26
Spec. conductance (umhos/cm at 25°C)	68	0	N/A				899	2897	8251	17818	23179	28407	35535
Water Temperature (°C)	69	0	>32	1	1.4		2.9	7.9	12.9	22.1	27.4	30.2	32.4
Other													
Chlorophyll a (ug/L)	58	0	>40	17	29.3	> 99.9	1	8	14	20	45	86	190
TSS (mg/L)	21	7	N/A				6.2	6.2	6.2	8.2	12	20.4	59
Turbidity (NTU)	58	0	>25	2	3.4		3.3	4	5.2	7	8.9	16.1	50
Nutrients (mg/L)													
NH3 as N	58	41	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.32
NO2 + NO3 as N	58	34	N/A				0.02	0.02	0.02	0.02	0.08	0.18	0.28
TKN as N	58	0	N/A				0.45	0.57	0.67	0.83	1	1.4	2
Total Phosphorus	58	0	N/A				0.04	0.05	0.06	0.07	0.11	0.15	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	57.4	6	10.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SOUTHWEST CRK AT THE NARROWS

Station #: P4100000

Hydrologic Unit Code: 03030001

Latitude: 34.68399

Longitude: -77.42621

Stream class: SC HQW NSW

Agency: NCAMBNT

NC stream index: 19-17-(6.5)

Time period: 01/27/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<5	8	14.5	81.9	2.5	4	5.8	7.1	9.4	10.9	14.5
pH (SU)	56	0	<6.8	8	14.3	80.6	6.4	6.7	6.9	7.2	7.6	7.8	8.5
Salinity (ppt)	56	0	>8.5	0	0		6.4	6.7	6.9	7.2	7.6	7.8	8.5
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				0.39	1.34	2.89	6.51	13.88	17.82	22.71
Water Temperature (°C)	57	0	N/A				764	2431	5205	11418	23049	29066	35971
Water Temperature (°C)	58	0	>32	0	0		2.7	7.2	12	21.2	28.6	30.4	32
Other													
Chlorophyll a (ug/L)	58	1	>40	8	13.8	77.9	1	4	10	16	26	47	210
TSS (mg/L)	21	10	N/A				6.2	6.2	6.2	6.5	10	23	26
Turbidity (NTU)	58	0	>25	0	0		2.7	3	3.6	5	8.2	11.1	16
Nutrients (mg/L)													
NH3 as N	57	27	N/A				0.02	0.02	0.02	0.02	0.05	0.08	0.37
NO2 + NO3 as N	57	27	N/A				0.02	0.02	0.02	0.02	0.09	0.17	0.42
TKN as N	57	0	N/A				0.54	0.61	0.66	0.78	0.95	1.2	1.3
Total Phosphorus	57	0	N/A				0.03	0.04	0.04	0.06	0.1	0.13	0.2
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	25.3	1	1.7										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NEW RIV UPS OF FRENCHS CRK

Station #: P4600000

Hydrologic Unit Code: 03030001

Latitude: 34.64669

Longitude: -77.34756

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 19-(15.5)

Time period: 01/27/2009 to 12/18/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Field												
D.O. (mg/L)	82	0	<5	0	0		5.1	6.5	7	8.1	10.3	15.3
pH (SU)	83	0	<6.8	0	0		7.2	7.6	7.8	7.9	8.1	8.7
Salinity (ppt)	83	0	>8.5	2	2.4		7.2	7.6	7.8	7.9	8.1	8.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				5.77	11.4	15.89	18.77	21.81	27.44
Water Temperature (°C)	85	0	N/A				10285	19264	26046	30288	34702	42649
	86	0	>32	0	0		2.5	6.3	12.1	21.8	27.8	30.8
Other												
Chlorophyll a (ug/L)	57	0	>40	1	1.8		3	5	8	12	18	54
TSS (mg/L)	21	9	N/A				6.2	6.2	6.2	7	9	20
Turbidity (NTU)	57	0	>25	0	0		1.6	2.1	2.4	3.6	5	9.2
Nutrients (mg/L)												
NH3 as N	57	45	N/A				0.02	0.02	0.02	0.02	0.02	1.2
NO2 + NO3 as N	57	39	N/A				0.02	0.02	0.02	0.02	0.02	0.44
TKN as N	57	0	N/A				0.2	0.39	0.5	0.55	0.66	2.1
Total Phosphorus	57	0	N/A				0.02	0.03	0.03	0.04	0.05	0.12
Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
57	2.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: WHITE OAK RIV AT SR 1442 NR STELLA

Station #: P6400000

Hydrologic Unit Code: 03020106

Latitude: 34.77486

Longitude: -77.15383

Stream class: SA HQW

Agency: NCAMBNT

NC stream index: 20-(18)

Time period: 02/03/2009 to 12/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	10	18.5	96	2.6	4.4	5.5	7	8.4	10.2	11.5
pH (SU)	54	0	<6.8	17	31.5	>99.9	5.7	6.1	6.6	6.9	7.2	7.4	7.7
	54	0	>8.5	0	0		5.7	6.1	6.6	6.9	7.2	7.4	7.7
Salinity (ppt)	56	0	N/A				0.05	0.09	0.49	3.17	10.36	15.3	20.32
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				114	248	903	5611	16654	25226	32602
Water Temperature (°C)	55	0	>32	0	0		5.5	8.9	12	19.1	27.2	29.8	31.3
Other													
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	7.8	9.4	12	30
Turbidity (NTU)	59	0	>25	0	0		3.1	3.4	4.4	5.6	7.5	9.2	16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:		Median	# > 43	% > 43	%Conf				
59	48	0	0			56	33	56	> 99.9				

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: NEWPORT RIV AT SR 1247 AT NEWPORT

Station #: P7300000

Hydrologic Unit Code: 03020106

Latitude: 34.78054

Longitude: -76.85971

Stream class: C

Agency: NCAMBNT

NC stream index: 21-(1)

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	11	20.4	98.3	0.2	3.5	4.2	6	7.2	8.3	9.9
pH (SU)	54	0	<5	22	40.7	> 99.9	0.2	3.5	4.2	6	7.2	8.3	9.9
	54	0	<6	25	46.3	> 99.9	4.6	5.2	5.7	6	6.5	6.8	7.1
Salinity (ppt)	54	0	>9	0	0		4.6	5.2	5.7	6	6.5	6.8	7.1
	56	0	N/A				0.02	0.03	0.05	0.09	0.24	1.02	6.45
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				63	87	118	191	490	1962	11337
Water Temperature (°C)	55	0	>32	0	0		5	8.1	11.4	17.6	25.2	28.1	30.4
Other													
Hardness (mg/L)	14	0	N/A				24	26	36	42	82	383	680
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	9.7	20.8	32.8	44
Turbidity (NTU)	59	0	>50	0	0		1.3	3.3	5.2	7.3	14	31	50
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	236.8	12	20.3	47.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CALICO CRK AT SR 1243 AT MOREHEAD CITY

Station #: P8750000

Hydrologic Unit Code: 03020106

Latitude: 34.73436

Longitude: -76.74210

Stream class: SC HQW

Agency: NCAMBNT

NC stream index: 21-32

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<5	7	11.7	60.5	2.5	4.6	6.6	8.6	11.4	13.1	19.6
pH (SU)	60	0	<6.8	0	0		6.9	7.1	7.2	7.4	7.8	8.1	8.5
Salinity (ppt)	60	0	>8.5	0	0		6.9	7.1	7.2	7.4	7.8	8.1	8.5
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				0.25	0.5	1.3	6.65	16.32	25.02	30.77
Water Temperature (°C)	61	0	>32	6	9.8		7.9	11.2	15.6	23.6	28.4	31.8	36.7
Other													
Chlorophyll a (ug/L)	56	0	>40	22	39.3	> 99.9	2	3	6	20	72	163	361
TSS (mg/L)	20	1	N/A				7.2	7.8	12.5	27.5	56.5	97.2	115
Turbidity (NTU)	58	0	>25	20	34.5	> 99.9	4.1	7.1	10.8	19	32.2	45	60
Nutrients (mg/L)													
NH3 as N	58	3	N/A				0.02	0.02	0.08	0.15	0.2	0.39	0.94
NO2 + NO3 as N	58	2	N/A				0.02	0.1	0.14	0.19	0.48	1.54	2.8
TKN as N	58	0	N/A				0.51	0.6	0.7	1	1.6	2.41	6.5
Total Phosphorus	58	0	N/A				0.06	0.1	0.15	0.31	0.62	1.01	1.8
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	1216	47	81	> 99.9									

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CALICO CRK AT SR 1176 AT MOREHEAD CITY

Station #: P8800000

Hydrologic Unit Code: 03020106

Latitude: 34.72791

Longitude: -76.72921

Stream class: SC HQW

Agency: NCAMBNT

NC stream index: 21-32

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	81	0	<5	8	9.9		1.4	5	6.3	8.6	9.8	11.4	18.5
pH (SU)	82	0	<6.8	0	0		7	7.3	7.5	7.8	7.9	8	8.5
Salinity (ppt)	82	0	>8.5	0	0		7	7.3	7.5	7.8	7.9	8	8.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				5	13.33	19.19	25.32	28.76	33.6	35.26
Water Temperature (°C)	83	0	>32	4	4.8		6.9	11.6	15.4	21.6	28.3	30.9	34.6
Other													
Chlorophyll a (ug/L)	57	0	>40	11	19.3	97.6	1	2	4	9	28	90	190
TSS (mg/L)	20	0	N/A				7.5	8	15.2	22	35.2	87.5	112
Turbidity (NTU)	58	0	>25	7	12.1	63.9	1.5	5.4	9.5	14	19.2	31	110
Nutrients (mg/L)													
NH3 as N	58	10	N/A				0.02	0.02	0.02	0.06	0.12	0.18	0.6
NO2 + NO3 as N	58	6	N/A				0.02	0.02	0.07	0.17	0.45	0.88	1.9
TKN as N	58	1	N/A				0.2	0.29	0.45	0.62	0.92	1.64	2.7
Total Phosphorus	58	0	N/A				0.04	0.06	0.09	0.15	0.38	0.58	1.7
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
58	65.3	11	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: NORTH RIV AT US 70 NR BETTIE

Station #: P8975000

Hydrologic Unit Code: 03020106

Latitude: 34.78901

Longitude: -76.61005

Stream class: SA HQW

Agency: NCAMBNT

NC stream index: 21-35-1

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<5	0	0		5.2	5.9	7	7.9	9.6	10.7	12.4
pH (SU)	58	0	<6.8	0	0		7.1	7.6	7.7	7.8	7.9	7.9	8
Salinity (ppt)	58	0	>8.5	0	0		7.1	7.6	7.7	7.8	7.9	7.9	8
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				0.42	17.98	23.86	28.41	31.71	34.62	37.08
Water Temperature (°C)	59	0	>32	0	0		801	29197	37560	44102	48557	52401	55734
Other													
Chlorophyll a (ug/L)	5	0	>40	0	0		3	3	6	16	29	31	31
TSS (mg/L)	20	1	N/A				6.2	7.4	12.2	19	31.5	51.2	85
Turbidity (NTU)	59	0	>25	12	20.3	98.7	1.2	3	6	14	23	45	130
Nutrients (mg/L)													
NH3 as N	5	3	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	5	5	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	5	0	N/A				0.26	0.26	0.4	0.68	1.01	1.3	1.3
Total Phosphorus	5	0	N/A				0.04	0.04	0.04	0.05	0.14	0.21	0.21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf					
59	3.3	1	1.7		2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: BROAD CRK AT US 70 NR MASONTOWN

Station #: P8978000

Hydrologic Unit Code: 03020105

Latitude: 34.87980

Longitude: -76.41476

Stream class: SC

Agency: NCAMBNT

NC stream index: 21-35-7-10-4

Time period: 02/03/2009 to 12/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<5	16	28.1	>99.9	0.1	2.9	4.9	6.6	8.5	9.9	12.4
pH (SU)	57	0	<6.8	18	31.6	>99.9	5.7	6	6.6	7.2	7.5	7.8	8.1
	57	0	>8.5	0	0		5.7	6	6.6	7.2	7.5	7.8	8.1
Salinity (ppt)	59	0	N/A				0.05	0.11	0.36	5.87	20.38	31.87	36.71
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				118	234	694	11474	33432	48784	55262
Water Temperature (°C)	58	0	>32	2	3.4		6.7	9.3	13.5	20.1	27.1	30.8	33.2
Other													
Chlorophyll a (ug/L)	2	0	>40	1	50		18	18	18	50	81	81	81
TSS (mg/L)	20	3	N/A				6.2	6.3	8.5	14	17	23.8	27
Turbidity (NTU)	59	0	>25	7	11.9	62.2	5.2	6.8	8.4	12	18	26	34
Nutrients (mg/L)													
NH3 as N	3	2	N/A				0.02	0.02	0.02	0.02	0.03	0.03	0.03
NO2 + NO3 as N	3	2	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	3	0	N/A				0.83	0.83	0.83	0.88	2.1	2.1	2.1
Total Phosphorus	3	0	N/A				0.1	0.1	0.1	0.16	0.3	0.3	0.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	112.3	11	18.6										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Yadkin-Pee Dee

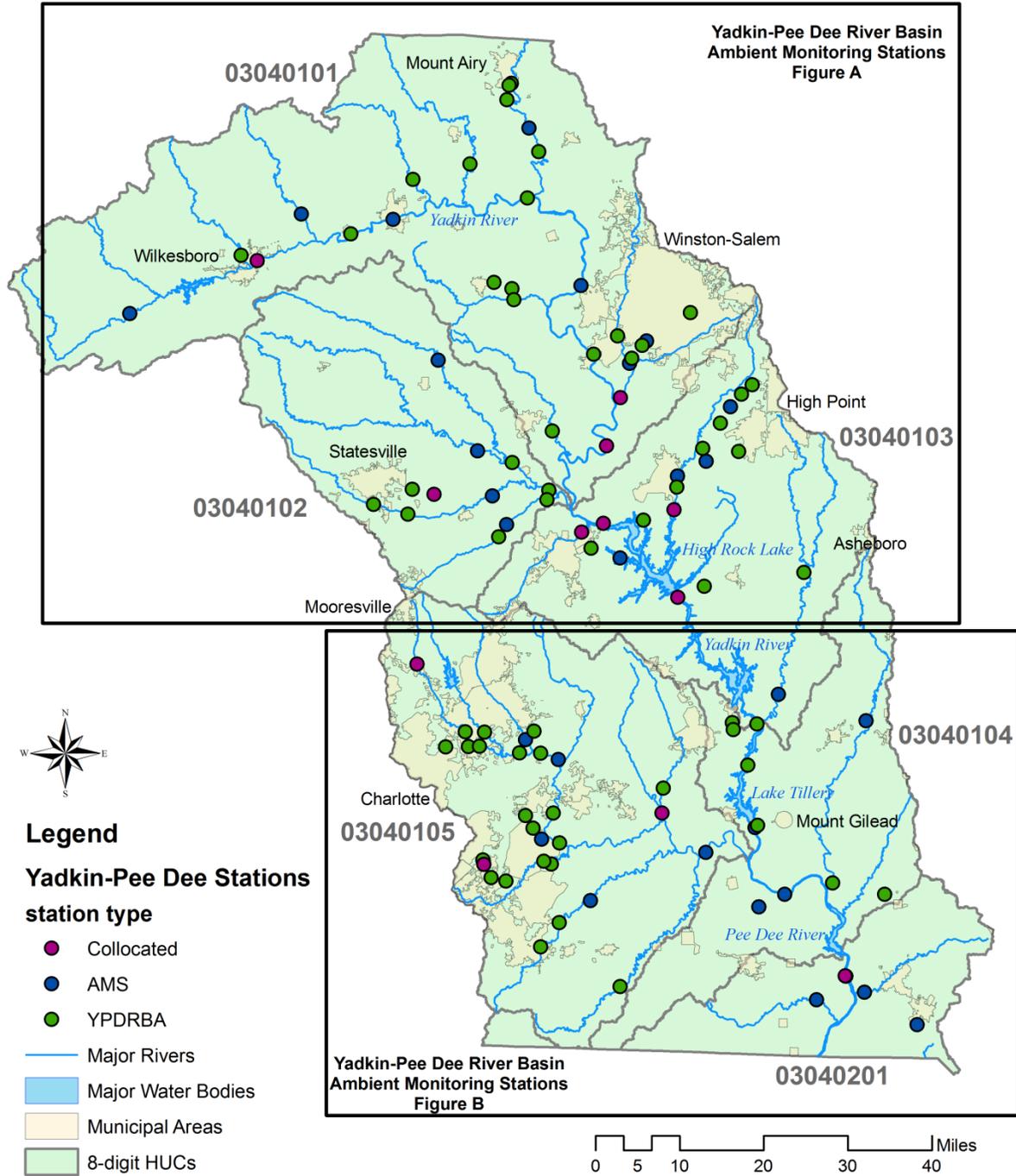
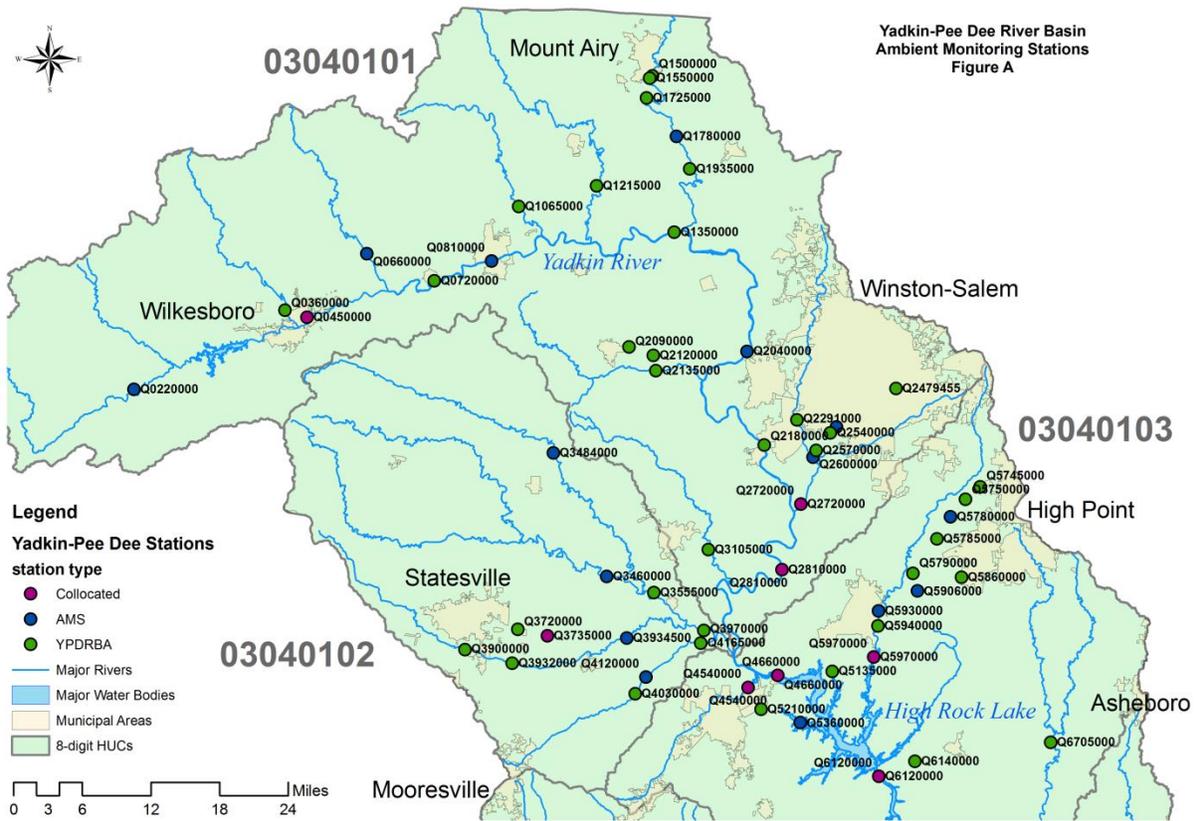


Figure YAD-1. Yadkin-Pee Dee River basin ambient monitoring station locations, 2009-2013 (see details below).

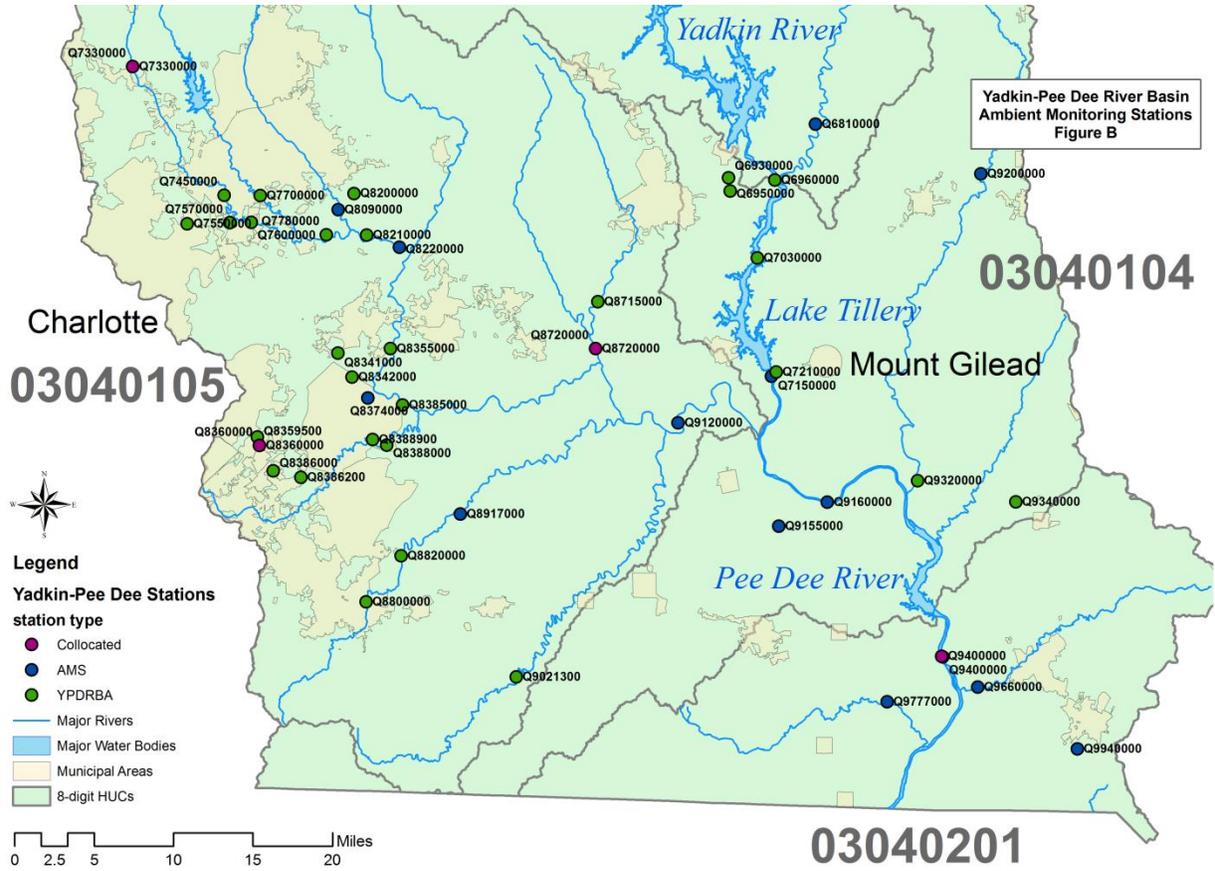
NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013



NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013



NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table YAD-1. Ambient monitoring stations in the Yadkin-PeeDee River basin, 2009-2013.

AGENCY	STATION	LOCATION	STREAM CLASS	LATITUDE	LONGITUDE
HUC 03040101					
AMS	Q0220000	Elk Creek at NC-268 at Elkville	B ORW	36.0695	-81.4024
YPDRBA	Q0360000	Reddies River at SR 1517 at N. Wilkesboro	WS-II HQW	36.1743	-81.1693
AMS/YPDRBA	Q0450000	Yadkin River at Bus NC 421 in N. Wilkesboro	C	36.1659	-81.1344
AMS	Q0660000	Roaring River at SR 1990 near Roaring River	B	36.2480	-81.0430
YPDRBA	Q0720000	Yadkin River at SR 2303 (Clingman Rd.) near Ronda	WS-IV	36.2154	-80.9367
AMS	Q0810000	Yadkin River at US-21 Business at Elkin	C	36.2418	-80.8473
YPDRBA	Q1065000	Mitchell River at SR 1001 near North Elkin	C	36.3114	-80.8066
YPDRBA	Q1215000	Fisher River at NC 268 near Fairview	C	36.3395	-80.6852
YPDRBA	Q1350000	Yadkin River at SR 1003 near Siloam	C	36.2824	-80.5622
YPDRBA	Q1500000	Ararat River at NC 52 near Mt Airy	C	36.4799	-80.6004
YPDRBA	Q1550000	Ararat River at WWTP Road at Mt. Airy WWTP	C	36.4770	-80.6045
YPDRBA	Q1725000	Ararat River at SR 2119 near Mt Airy	C	36.4517	-80.6092
AMS	Q1780000	Ararat River at SR-2019 at Ararat	C	36.4036	-80.5611
YPDRBA	Q1935000	Ararat River at SR 2044 near Pilot Mountain	C	36.3626	-80.5394
AMS	Q2040000	Yadkin River at SR-1605 at Enon	WS-IV	36.1328	-80.4454
YPDRBA	Q2120000	N Deep Creek at SR 1510 near Yadkinville	C	36.1259	-80.5918
YPDRBA	Q2135000	S Deep Creek at SR 1733 near Shacktown	WS-IV	36.1065	-80.5877
YPDRBA	Q2180000	Yadkin River at US 158 at Clemmons	WS-IV	36.0144	-80.4164
YPDRBA	Q2291000	Muddy Creek at I40 near Clemmons	C	36.0470	-80.3662
YPDRBA	Q2479455	Salem Creek at SR 2740 near Winston Salem	C	36.0884	-80.2121
AMS	Q2510000	Salem Creek at Elledge WWTP at Winston Salem	C	36.0388	-80.3042
YPDRBA	Q2540000	Salem Creek at SR 1120 at Winston Salem	C	36.0312	-80.3137
YPDRBA	Q2570000	Salem Creek at SR 2991 near Winston Salem	C	36.0086	-80.3353
AMS	Q2600000	Muddy Creek at SR-2995 near Muddy Creek	C	36.0000	-80.3400
AMS/YPDRBA	Q2720000	Muddy Creek at SR 1485 near Winston Salem	C	35.9402	-80.3580
AMS/YPDRBA	Q2810000	Yadkin River at US 64 at Yadkin College	WS-IV CA	35.8570	-80.3863
YPDRBA	Q3105000	Dutchman Creek at US 64 near MoCreeksville	C	35.8811	-80.5012
HUC 03040102					
AMS	Q3460000	South Yadkin River at SR-1159 near Mocksville	WS-IV	35.8448	-80.6591
AMS	Q3484000	Hunting Creek at SR-2115 near Harmony	WS-III	36.0002	-80.7456
YPDRBA	Q3555000	Bear Creek at SR 1116 near Coleemee	WS-IV	35.8256	-80.5852
YPDRBA	Q3720000	Fourth Creek at SR 2316 near Statesville	C	35.7761	-80.7958
AMS/YPDRBA	Q3735000	Fourth Creek at SR 2308 near Elmwood	C	35.7685	-80.7499
YPDRBA	Q3900000	Third Creek at SR 2342 near Statesville	C	35.7492	-80.8775
YPDRBA	Q3932000	Third Creek at SR 2359 near Statesville	C	35.7330	-80.8039
AMS	Q3934500	Third Creek at SR-1970 near Woodleaf	C	35.7674	-80.6261
YPDRBA	Q3970000	S Yadkin River at US 601 near Cooleemee	C	35.7784	-80.5067
YPDRBA	Q4030000	Second Creek at SR 1526 near Salisbury	C	35.6970	-80.6117
AMS	Q4120000	Second Creek at US-70 near Barber	C	35.7184	-80.5954
YPDRBA	Q4165000	Second Creek at US 601 near Salisbury	C	35.7625	-80.5108

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table YAD-1. Ambient monitoring stations in the Yadkin-PeeDee River basin, 2009-2013 (continued).

AGENCY	STATION	LOCATION	STREAM CLASS	LATITUDE	LONGITUDE
HUC 03040103					
AMS/YPDRBA	Q4540000	Grants Creek at SR 1915 near Salisbury	C	35.7072	-80.4361
AMS/YPDRBA	Q4660000	Yadkin River at NC 150 near Spencer	WS-V	35.7230	-80.3905
YPDRBA	Q5135000	Swearing Creek at SR 1272 near Linwood	C	35.7291	-80.3057
YPDRBA	Q5210000	Town Creek at SR 1915 (Andrew St.) at Spencer	C	35.6798	-80.4155
AMS	Q5360000	Town Creek at SR-2168 near Duke	C	35.6635	-80.3542
YPDRBA	Q5745000	Rich Fork Creek at SR 1757 near High Point	C	35.9651	-80.0787
YPDRBA	Q5750000	Rich Fork Creek at SR 1755 near High Point	C	35.9489	-80.1017
AMS	Q5780000	Rich Fork at SR-1800 near Thomasville	C	35.9267	-80.1246
YPDRBA	Q5785000	Rich Fork Creek at SR 1792 near High Point	C	35.8984	-80.1454
YPDRBA	Q5790000	Rich Fork Creek at SR 2123 near High Point	C	35.8543	-80.1822
YPDRBA	Q5860000	Hamby Creek at SR 2775 near Thomasville	C	35.8501	-80.1064
YPDRBA	Q5901000	Hamby Creek at I-85 Rest Area near Thomasville	C	35.9425	-80.1320
AMS	Q5906000	Hamby Creek at SR-2790 near Holly Grove	C	35.8324	-80.1747
AMS/YPDRBA	Q5930000	Abbotts Creek at SR-1243 at Lexington	C	35.8063	-80.2349
YPDRBA	Q5940000	Abbotts Creek at I 85 near Lexington	C	35.7873	-80.2357
AMS/YPDRBA	Q5970000	Abbotts Creek at NC 47 near Cotton Grove	WS-V, B	35.7479	-80.2414
AMS/YPDRBA	Q6120000	Yadkin River at SR 1002 at High Rock	WS-IV, B; CA	35.5968	-80.2313
YPDRBA	Q6140000	LiCreek Creek at SR 1002 near Healing Springs	WS-IV	35.6164	-80.1754
YPDRBA	Q6705000	Uwharrie River at NC 49 near Farmer	C	35.6421	-79.9650
AMS	Q6810000	Uwharrie River at NC-109 near Uwharrie	WS-IV B	35.4312	-80.0164
HUC 03040104					
YPDRBA	Q6930000	Little Mountain Creek at NC 1720 near Badin	WS-IV	35.3812	-80.1129
YPDRBA	Q6960000	Pee Dee River at Boat Ramp at Morrow Mountain SP	WS-IV, B; CA	35.3797	-80.0613
YPDRBA	Q7030000	Pee Dee River at NC 24, 27 and 73 near Albemarle	WS-IV, B; CA	35.3083	-80.0797
AMS	Q7150000	Pee Dee River at NC-731 near Shankle	WS-V B	35.2005	-80.0625
YPDRBA	Q7210000	Clarks Creek at SR 1187 near Mount Gilead	C	35.2044	-80.0575
AMS	Q9155000	Brown Creek at SR-1627 near Pinkston	C	35.0637	-80.0528
AMS	Q9160000	Pee Dee River at NC-109 near Mangum	WS-V B	35.0859	-79.9989
AMS	Q9200000	Little River at SR-1340 near Star	C HQW	35.3872	-79.8315
YPDRBA	Q9320000	Little River at SR 1148 near Ellerbe	WS-IV	35.1063	-79.8989
YPDRBA	Q9340000	Toms Branch at SR 1310 near Ellerbe	C	35.0878	-79.7894
YPDRBA	Q9345000	Mountain Creek at SR 1150 near Ellerbe	WS-IV	35.0891	-79.8351

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

2009 - 2013

Table YAD-1. Ambient monitoring stations in the Yadkin-PeeDee River basin, 2009-2013 (continued).

AGENCY	STATION	LOCATION	STREAM CLASS	LATITUDE	LONGITUDE
HUC 03040105					
AMS/YPDRBA	Q7330000	Rocky River at SR 2420 near Davidson	C	35.4749	-80.7795
YPDRBA	Q7450000	Rocky River at US 29 near Harrisburg	C	35.3590	-80.6751
YPDRBA	Q7550000	Mallard Creek at Pavillion Rd. near Harrisburg	C	35.3323	-80.7157
YPDRBA	Q7570000	Mallard Creek at SR 1300 near Harrisburg	C	35.3338	-80.6682
YPDRBA	Q7600000	Rocky River at SR 1304 near Harrisburg	C	35.3345	-80.6444
YPDRBA	Q7700000	Coddle Creek at SR 1304 near Roberta Mill	C	35.3592	-80.6347
YPDRBA	Q7780000	Rocky River at SR 1132 near Harrisburg	C	35.3244	-80.5603
AMS	Q8090000	Irish Buffalo Creek at SR-1132 near Faggarts	C	35.3473	-80.5477
YPDRBA	Q8200000	Cold Water Creek at SR 1132 near Concord	C	35.3624	-80.5303
YPDRBA	Q8210000	Rocky River at US 601 near Concord	C	35.3245	-80.5154
AMS	Q8220000	Rocky River at SR-1006 near Concord	C	35.3140	-80.4786
YPDRBA	Q8341000	Clear Creek at SR 1118 near Brief	C	35.2163	-80.5456
YPDRBA	Q8342000	Clear Creek at US 601 near Brief	C	35.1947	-80.5293
YPDRBA	Q8355000	Rocky River at SR 1114 near Midland	C	35.2212	-80.4871
YPDRBA	Q8359500	Goose Creek in Hunley Creek. Subdivision	C	35.1386	-80.6336
AMS/YPDRBA	Q8360000	Goose Creek at SR 1524 near Mint Hill	C	35.1309	-80.6311
AMS	Q8374000	Goose Creek at SR-1547 near Brief	C	35.1759	-80.5113
YPDRBA	Q8385000	Rocky River at SR 1606 near Monroe	C	35.1699	-80.4728
YPDRBA	Q8386000	N Fork Crooked Creek at SR 1520 near Monroe	C	35.1079	-80.6154
YPDRBA	Q8386200	N Fork Crooked Creek at SR 1514 near Monroe	C	35.1024	-80.5843
YPDRBA	Q8388000	Crooked Creek at NC 218 near Monroe	C	35.1330	-80.4896
YPDRBA	Q8388900	Crooked Creek at SR 1601 near Monroe	C	35.1381	-80.5054
YPDRBA	Q8480000	Rocky River at NC 205 near Stanfield	C	35.1690	-80.3460
YPDRBA	Q8715000	Long Creek at SR 1968 near Oakboro	C	35.2667	-80.2569
AMS/YPDRBA	Q8720000	Long Creek at SR 1917 near Rocky River Springs	C	35.2239	-80.2586
YPDRBA	Q8800000	Richardson Creek at SR 1751 at Monroe	C	34.9897	-80.5097
YPDRBA	Q8820000	Richardson Creek at SR 1006 near Monroe	C	35.0322	-80.4716
AMS	Q8917000	Richardson Creek at SR-1649 near Fairfield	C	35.0711	-80.4066
YPDRBA	Q9021300	Lanes Creek at SR 1005 near Marshville	WS-V	34.9232	-80.3422
AMS	Q9120000	Rocky River at SR-1935 near Norwood	C	35.1569	-80.1658
HUC 03040201					
AMS/YPDRBA	Q9400000	Pee Dee River at US 74 nr Rockingham	C	34.9464	-79.8706
AMS	Q9660000	Hitchcock Creek at SR-1109 at Cordova	C	34.9184	-79.8300
AMS	Q9777000	Jones Creek at NC-145 near Pee Dee	C	34.9043	-79.9305
AMS	Q9940000	Marks Creek at SR-1812 near Hamlet	C	34.8626	-79.7191

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

Location: ELK CRK AT NC 268 AT ELKVILLE
Station #: Q0220000
Latitude: 36.06952 **Longitude:** -81.40237
Agency: NCAMBNT

Hydrologic Unit Code: 03040101
Stream class: B ORW
NC stream index: 12-24-(10)

Time period: 02/04/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	0	0		7.1	7.9	8.7	10	11.9	13.4	14.7
	59	0	<5	0	0		7.1	7.9	8.7	10	11.9	13.4	14.7
pH (SU)	58	0	<6	0	0		6.7	7	7.3	7.6	7.8	8.1	9.2
	58	0	>9	1	1.7		6.7	7	7.3	7.6	7.8	8.1	9.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				17	32	34	36	39	43	127
Water Temperature (°C)	59	0	>29	0	0		0.3	4.8	8.4	16.2	19.9	23.1	26.2
Other													
Hardness (mg/L)	14	0	N/A				8	9	10	10	11	12	14
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	13.5	45.1	164
Turbidity (NTU)	59	8	>50	2	3.4		1	1	1.8	2.6	5.9	25	95
Nutrients (mg/L)													
NH3 as N	58	52	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	58	2	N/A				0.02	0.04	0.1	0.16	0.22	0.25	0.4
TKN as N	58	37	N/A				0.2	0.2	0.2	0.2	0.2	0.3	1
Total Phosphorus	58	25	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.31

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	95.7	12	20.7	49.9

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: REDDIES RIV AT SR 1517 AT N WILKESBORO

Station #: Q0360000

Hydrologic Unit Code: 03040101

Latitude: 36.17430

Longitude: -81.16930

Stream class: WS II HQW

Agency: YPDRBA

NC stream index: 12-40-(1)

Time period: 01/25/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	6.7	7.4	8.1	9.2	10.9	12.3
	88	0	<5	0	0		6.3	6.7	7.4	8.1	9.2	10.9	12.3
pH (SU)	88	0	<6	0	0		6.2	6.8	7	7.1	7.2	7.3	7.4
	88	0	>9	0	0		6.2	6.8	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	87	6	N/A				50	56	63	70	75	83	116
Water Temperature (°C)	88	0	>29	0	0		3.3	5.9	12.3	18.6	22.7	24.5	27
Other													
TSS (mg/L)	62	6	N/A				1	3.1	4.1	8.2	14	26.2	309
Turbidity (NTU)	62	0	>50	3	4.8		1.8	3.2	5.5	9.6	15	29.9	210
Nutrients (mg/L)													
NH3 as N	62	11	N/A				0.01	0.01	0.03	0.05	0.09	0.13	0.21
NO2 + NO3 as N	62	0	>10	0	0		0.08	0.38	0.43	0.52	0.59	0.66	0.77
TKN as N	62	18	N/A				0.2	0.2	0.2	0.3	0.52	0.74	1.33
Total Phosphorus	60	11	N/A				0.02	0.02	0.03	0.05	0.08	0.15	0.55
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	94.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT US 421 BUS AT N WILKESBORO
Station #: Q0450000 **Hydrologic Unit Code:** 03040101
Latitude: 36.16597 **Longitude:** -81.13447 **Stream class:** C
Agency: NCAMBNT **NC stream index:** 12-(38)

Time period: 02/04/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<4	0	0		6.4	7	8	9.9	11.9	13.4	15.8
	53	0	<5	0	0		6.4	7	8	9.9	11.9	13.4	15.8
pH (SU)	51	0	<6	0	0		6.7	7	7.2	7.4	7.7	8.1	8.6
	51	0	>9	0	0		6.7	7	7.2	7.4	7.7	8.1	8.6
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				31	42	50	57	67	75	119
Water Temperature (°C)	55	0	>29	0	0		3.3	6	11	16.7	21.1	23.2	24.7
Other													
Hardness (mg/L)	11	0	N/A				11	11	12	16	17	19	19
TSS (mg/L)	16	7	N/A				6.2	6.2	6.3	12	16.5	53.6	97
Turbidity (NTU)	56	0	>50	3	5.4		1.9	3.6	5	7.9	13	38.7	130
Nutrients (mg/L)													
NH3 as N	3	0	N/A				0.02	0.02	0.02	0.03	0.05	0.05	0.05
NO2 + NO3 as N	3	0	N/A				0.4	0.4	0.4	0.72	1.1	1.1	1.1
TKN as N	3	0	N/A				0.2	0.2	0.2	0.26	0.3	0.3	0.3
Total Phosphorus	3	0	N/A				0.05	0.05	0.05	0.15	0.18	0.18	0.18

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
56	102.1	10	17.9	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT US 421 BUS AT N WILKESBORO
Station #: Q0450000 **Hydrologic Unit Code:** 03040101
Latitude: 36.16597 **Longitude:** -81.13447 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-(38)

Time period: 01/25/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.4	6.7	7.4	8.1	9.2	11	12.2
	88	0	<5	0	0		6.4	6.7	7.4	8.1	9.2	11	12.2
pH (SU)	88	0	<6	1	1.1		4.2	6.7	7	7.1	7.2	7.3	7.4
	88	0	>9	0	0		4.2	6.7	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	87	5	N/A				50	54	62	70	77	84	121
Water Temperature (°C)	88	0	>29	0	0		3.3	5.7	12.3	18.6	22.9	24.6	26.6
Other													
TSS (mg/L)	14	0	N/A				4.2	4.4	5.4	11.5	22.8	67.5	75
Turbidity (NTU)	62	0	>50	2	3.2		1	3.3	4.3	6.8	15.2	31.2	190
Nutrients (mg/L)													
NH3 as N	62	11	N/A				0.01	0.01	0.02	0.05	0.08	0.12	0.31
NO2 + NO3 as N	62	0	N/A				0.23	0.28	0.37	0.4	0.48	0.62	0.88
TKN as N	62	21	N/A				0.16	0.2	0.2	0.25	0.44	0.8	1.46
Total Phosphorus	60	15	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.64

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	110.1	1	2	

Key:
 # result: number of observations
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 %Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)
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Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Resources
 Basinwide Assessment Report

Location: ROARING RIV AT SR 1990 NR ROARING RIVER

Station #: Q0660000

Hydrologic Unit Code: 03040101

Latitude: 36.24802

Longitude: -81.04303

Stream class: B

Agency: NCAMBNT

NC stream index: 12-46

Time period: 01/12/2009 to 12/05/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	72	0	<4	0	0		6.9	8.3	8.9	10.4	12.5	13.9	16.2
	72	0	<5	0	0		6.9	8.3	8.9	10.4	12.5	13.9	16.2
pH (SU)	71	0	<6	0	0		6.8	7	7.2	7.4	7.6	7.9	8.7
	71	0	>9	0	0		6.8	7	7.2	7.4	7.6	7.9	8.7
Spec. conductance (umhos/cm at 25°C)	73	0	N/A				26	32	35	37	40	49	91
Water Temperature (°C)	73	0	>29	0	0		0.2	4	7.9	14.4	20.2	22.3	25.1
Other													
Hardness (mg/L)	14	0	N/A				8	8	9	10	12	20	21
Total Organic Carbon (mg/L as C)	30	19	N/A				2	2	2	2	2	3	8
TSS (mg/L)	45	27	N/A				6.2	6.2	6.2	6.2	12	25.2	130
Turbidity (NTU)	74	1	>50	4	5.4		1	1.6	2.4	5	8.6	25.5	85
Nutrients (mg/L)													
NH3 as N	30	25	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	30	0	N/A				0.3	0.38	0.4	0.47	0.59	0.71	0.75
TKN as N	30	19	N/A				0.2	0.2	0.2	0.2	0.22	0.38	0.9
Total Phosphorus	30	4	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.3

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
74	82.9	9	12.2	

Key:

result: number of observations

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

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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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT SR 2303 AT RONDA
Station #: Q0720000
Latitude: 36.21548 **Longitude:** -80.93678
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: WS-IV
NC stream index: 12-(47.5)

Time period: 01/25/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	6.7	7.4	8.1	9.1	11.1	12
	88	0	<5	0	0		6.3	6.7	7.4	8.1	9.1	11.1	12
pH (SU)	88	0	<6	0	0		6.1	6.8	7	7.2	7.3	7.3	7.4
	88	0	>9	0	0		6.1	6.8	7	7.2	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	2	N/A				50	59	66	76	82	88	109
Water Temperature (°C)	88	0	>29	0	0		3.5	6.1	12.6	18.8	23.3	25	27.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	5	8.1		3.5	5.8	8.8	14	21	42.3	320
Nutrients (mg/L)													
NH3 as N	62	2	N/A				0.01	0.03	0.04	0.07	0.11	0.15	0.29
NO2 + NO3 as N	62	0	>10	0	0		0.34	0.4	0.52	0.63	0.73	0.79	0.89
TKN as N	62	7	N/A				0.2	0.2	0.25	0.37	0.57	0.99	2.01
Total Phosphorus	60	5	N/A				0.02	0.03	0.05	0.07	0.11	0.27	0.71
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	101.4	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
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 %Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT US 21 BUS AT ELKIN
Station #: Q0810000
Latitude: 36.24176 **Longitude:** -80.84734
Agency: NCAMBNT

Hydrologic Unit Code: 03040101
Stream class: C
NC stream index: 12-(53)

Time period: 01/12/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		6.8	7.6	8.3	9.6	11.7	13.3	15.3
	57	0	<5	0	0		6.8	7.6	8.3	9.6	11.7	13.3	15.3
pH (SU)	55	0	<6	0	0		6.7	7	7.2	7.4	7.5	7.8	8.6
	55	0	>9	0	0		6.7	7	7.2	7.4	7.5	7.8	8.6
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				42	46	53	58	66	72	93
Water Temperature (°C)	57	0	>29	0	0		1.9	4.1	9.6	16.9	21.5	24.4	27.9
Other													
Hardness (mg/L)	15	0	N/A				11	13	14	16	18	43	79
Total Organic Carbon (mg/L as C)	15	4	N/A				2	2	2	2	3	3	3
TSS (mg/L)	30	6	N/A				6.2	6.9	8	14	26.5	57.1	90
Turbidity (NTU)	58	0	>50	3	5.2		1.8	3.9	6.9	10.5	22.2	35.1	110
Nutrients (mg/L)													
NH3 as N	15	4	N/A				0.02	0.02	0.02	0.03	0.04	0.09	0.11
NO2 + NO3 as N	15	0	N/A				0.36	0.38	0.54	0.61	0.9	0.93	0.95
TKN as N	15	0	N/A				0.2	0.22	0.25	0.3	0.37	0.46	0.49
Total Phosphorus	15	0	N/A				0.05	0.05	0.07	0.1	0.1	0.12	0.12

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	208.7	15	25.9	83

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MITCHELL RIV AT SR 1001 NR NORTH ELKIN

Station #: Q1065000

Hydrologic Unit Code: 03040101

Latitude: 36.31137

Longitude: -80.80656

Stream class: C

Agency: YPDRBA

NC stream index: 12-62-(12.5)

Time period: 01/26/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.6	7.2	7.6	8.4	9.5	11.3	13.2
	88	0	<5	0	0		6.6	7.2	7.6	8.4	9.5	11.3	13.2
pH (SU)	88	0	<6	0	0		6.5	6.8	7.1	7.2	7.4	7.4	7.5
	88	0	>9	0	0		6.5	6.8	7.1	7.2	7.4	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	88	7	N/A				50	61	72	91	104	117	126
Water Temperature (°C)	88	0	>29	0	0		1.3	4.9	11.8	18	21.9	24.1	25.7

Other

TSS (mg/L)	62	21	N/A				1	2.9	2.9	5.6	11.2	39.4	1230
Turbidity (NTU)	62	0	>50	6	9.7		1.3	3.3	5	9.2	17.2	51.9	600

Nutrients (mg/L)

NH3 as N	62	13	N/A				0.01	0.01	0.02	0.03	0.07	0.13	0.42
NO2 + NO3 as N	62	0	N/A				0.13	0.23	0.32	0.4	0.49	0.58	1.95
TKN as N	62	18	N/A				0.2	0.2	0.2	0.32	0.56	0.85	2.59
Total Phosphorus	60	12	N/A				0.02	0.02	0.02	0.04	0.07	0.11	1.12

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	90.8	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FISHER RIV AT NC 268 NR FAIRVIEW
Station #: Q1215000
Latitude: 36.33953 **Longitude:** -80.68520
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: C
NC stream index: 12-63-(9)

Time period: 01/26/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.6	6.8	7.4	8.2	9.3	11.1	13
	88	0	<5	0	0		6.6	6.8	7.4	8.2	9.3	11.1	13
pH (SU)	88	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.3	7.4
	88	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	2	N/A				50	70	94	112	120	131	147
Water Temperature (°C)	88	0	>29	0	0		1.3	5.7	12.2	18.2	22.6	24.6	26.1
Other													
TSS (mg/L)	62	15	N/A				1.7	2.9	3.1	9.8	17.5	58.4	1080
Turbidity (NTU)	62	0	>50	7	11.3	57.2	1.6	3.3	5.6	12.5	27.5	77.5	750
Nutrients (mg/L)													
NH3 as N	62	11	N/A				0.01	0.01	0.03	0.05	0.09	0.19	0.37
NO2 + NO3 as N	62	0	N/A				0.31	0.63	0.74	0.86	1.02	1.16	1.36
TKN as N	62	16	N/A				0.2	0.2	0.2	0.33	0.61	0.95	2.89
Total Phosphorus	60	2	N/A				0.02	0.04	0.07	0.1	0.18	0.25	0.78
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	96.5	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT SR 1003 NR SILOAM
Station #: Q1350000
Latitude: 36.28238 **Longitude:** -80.56223
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: C
NC stream index: 12-(53)

Time period: 01/26/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.5	6.8	7.4	8.2	9.3	10.9	12.6
	88	0	<5	0	0		6.5	6.8	7.4	8.2	9.3	10.9	12.6
pH (SU)	88	0	<6	0	0		6	6.9	7.1	7.1	7.2	7.3	7.4
	88	0	>9	0	0		6	6.9	7.1	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	2	N/A				50	72	95	107	117	124	131
Water Temperature (°C)	88	0	>29	0	0		2.1	6.5	12.9	20	23.7	25.4	26.6
Other													
TSS (mg/L)	62	4	N/A				2.9	3.5	6.8	13.5	30.2	40.4	615
Turbidity (NTU)	62	0	>50	8	12.9	72.1	3.1	5.6	11.5	20	35.2	81	370
Nutrients (mg/L)													
NH3 as N	62	8	N/A				0.01	0.02	0.03	0.05	0.08	0.17	0.64
NO2 + NO3 as N	62	0	N/A				0.42	0.47	0.56	0.66	0.74	0.83	0.95
TKN as N	62	7	N/A				0.2	0.2	0.29	0.44	0.68	1.08	2.21
Total Phosphorus	60	5	N/A				0.02	0.02	0.05	0.09	0.13	0.24	0.91
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	78.9	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ARARAT RIV AT US 52 NR MT AIRY
Station #: Q1500000
Latitude: 36.47995 **Longitude:** -80.60035
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: C
NC stream index: 12-72-(4.5)

Time period: 01/26/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.6	6.8	7.4	8.2	9.3	10.8	12.6
	88	0	<5	0	0		6.6	6.8	7.4	8.2	9.3	10.8	12.6
pH (SU)	88	0	<6	0	0		6.3	6.8	6.9	7.1	7.2	7.2	7.3
	88	0	>9	0	0		6.3	6.8	6.9	7.1	7.2	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	88	3	N/A				50	70	105	120	130	142	155
Water Temperature (°C)	88	0	>29	0	0		1.2	6.2	12.1	18.9	22.5	24.5	26.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	5	8.1		1.9	3	5.5	13	23.2	48.5	700
Nutrients (mg/L)													
NH3 as N	6	1	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.06
NO2 + NO3 as N	6	0	N/A				0.41	0.41	0.41	0.45	0.55	0.56	0.56
TKN as N	6	2	N/A				0.2	0.2	0.2	0.23	0.26	0.28	0.28
Total Phosphorus	6	5	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.03
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
50	90.8	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ARARAT RIV AT WWTP RD AT MT AIRY WWTP
Station #: Q1550000 **Hydrologic Unit Code:** 03040101
Latitude: 36.47703 **Longitude:** -80.60452 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-72-(4.5)

Time period: 01/26/2009 to 07/28/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		6.3	6.6	7	7.8	9	10.6	12.4
	80	0	<5	0	0		6.3	6.6	7	7.8	9	10.6	12.4
pH (SU)	80	0	<6	0	0		6.6	6.7	6.8	7	7.1	7.2	7.3
	80	0	>9	0	0		6.6	6.7	6.8	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				57	90	121	140	163	182	196
Water Temperature (°C)	80	0	>29	0	0		1.4	5.9	12.1	18.9	22.8	24.7	26.2
Other													
Turbidity (NTU)	56	0	>50	9	16.1	89.7	3.1	4.1	6.1	14	28.5	126	450

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	169	2	4.5	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ARARAT RIV AT SR 2119 NR MT AIRY
Station #: Q1725000
Latitude: 36.45172 **Longitude:** -80.60915
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: C
NC stream index: 12-72-(4.5)

Time period: 01/26/2009 to 07/28/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		6.4	6.7	7	7.9	9.1	10.7	12.7
	80	0	<5	0	0		6.4	6.7	7	7.9	9.1	10.7	12.7
pH (SU)	80	0	<6	0	0		6.5	6.8	6.9	7	7.1	7.2	7.4
	80	0	>9	0	0		6.5	6.8	6.9	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				51	81	108	138	155	165	178
Water Temperature (°C)	80	0	>29	0	0		1.6	5.6	12.2	19	23	24.8	26
Other													
Turbidity (NTU)	56	0	>50	5	8.9		1.7	3.2	4.9	11	20.8	45.3	550

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
44	139	3	6.8

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ARARAT RIV AT SR 2019 AT ARARAT
Station #: Q1780000
Latitude: 36.40361 **Longitude:** -80.56113
Agency: NCAMBNT

Hydrologic Unit Code: 03040101
Stream class: C
NC stream index: 12-72-(4.5)

Time period: 01/27/2009 to 12/05/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	0	0		5.9	8	8.9	10.4	12.2	13.7	15.4
	57	0	<5	0	0		5.9	8	8.9	10.4	12.2	13.7	15.4
pH (SU)	54	0	<6	0	0		6.9	7.2	7.5	7.7	8	8.3	8.9
	54	0	>9	0	0		6.9	7.2	7.5	7.7	8	8.3	8.9
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				56	66	68	72	78	86	129
Water Temperature (°C)	58	0	>29	0	0		1.5	4.7	8.9	17.1	22	24.8	27.9
Other													
Hardness (mg/L)	14	0	N/A				20	20	20	21	23	32	37
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	9.9	16	38.2	45
Turbidity (NTU)	58	0	>50	2	3.4		1.5	2.1	2.9	4.9	12.2	22.1	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				0.84	0.84	0.84	0.84	0.84	0.84	0.84
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

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
57	85.9	8	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ARARAT RIV AT SR 2044 NR PILOT MOUNTAIN

Station #: Q1935000

Hydrologic Unit Code: 03040101

Latitude: 36.36262

Longitude: -80.53938

Stream class: C

Agency: YPDRBA

NC stream index: 12-72-(4.5)

Time period: 01/26/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.4	6.7	7.5	8.2	9.4	10.9	12.7
	88	0	<5	0	0		6.4	6.7	7.5	8.2	9.4	10.9	12.7
pH (SU)	88	0	<6	0	0		6.6	6.8	7	7.1	7.3	7.4	7.5
	88	0	>9	0	0		6.6	6.8	7	7.1	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	88	1	N/A				50	85	96	110	123	130	163
Water Temperature (°C)	88	0	>29	0	0		1.7	5.6	12	18.8	22.9	24.4	25.9

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	9	14.5	83.6	1.6	3.3	6.7	12	30.2	85.5	950

Nutrients (mg/L)

NH3 as N	6	3	N/A				0.02	0.02	0.02	0.02	0.04	0.04	0.04
NO2 + NO3 as N	6	0	N/A				0.49	0.49	0.56	0.59	0.61	0.64	0.64
TKN as N	6	2	N/A				0.2	0.2	0.2	0.32	0.52	0.86	0.86
Total Phosphorus	6	5	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.03

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	79.8	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT SR 1605 AT ENON
Station #: Q2040000
Latitude: 36.13279 **Longitude:** -80.44539
Agency: NCAMBNT

Hydrologic Unit Code: 03040101
Stream class: WS-IV
NC stream index: 12-(80.7)

Time period: 01/12/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	0	0		6.8	7.6	7.9	9.8	12.6	13.5	16.4
	55	0	<5	0	0		6.8	7.6	7.9	9.8	12.6	13.5	16.4
pH (SU)	53	0	<6	0	0		6.7	7	7.3	7.5	7.7	8.2	8.7
	53	0	>9	0	0		6.7	7	7.3	7.5	7.7	8.2	8.7
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				33	49	57	61	66	73	81
Water Temperature (°C)	55	0	>29	0	0		0.8	2.9	9.2	16.3	22.7	25.9	28
Other													
Hardness (mg/L)	13	0	>100	0	0		15	15	17	18	20	22	22
Total Organic Carbon (mg/L as C)	15	5	N/A				2	2	2	3	3	4	5
TSS (mg/L)	29	5	N/A				6.2	6.2	8.1	17	35.5	56	110
Turbidity (NTU)	54	0	>50	7	13	70.6	2	4.4	8	19	37.2	70	280
Nutrients (mg/L)													
NH3 as N	15	7	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.05
NO2 + NO3 as N	15	0	>10	0	0		0.41	0.43	0.47	0.61	0.69	0.87	0.89
TKN as N	15	2	N/A				0.2	0.2	0.24	0.31	0.38	0.49	0.51
Total Phosphorus	15	0	N/A				0.04	0.04	0.06	0.09	0.14	0.15	0.16

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
52	82.6	9	17.3	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: N DEEP CRK AT SR 1510 NR YADKINVILLE

Station #: Q2120000

Hydrologic Unit Code: 03040101

Latitude: 36.12590

Longitude: -80.59183

Stream class: C

Agency: YPDRBA

NC stream index: 12-84-1-(0.5)

Time period: 01/26/2009 to 07/28/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		6.2	6.5	7	7.9	8.8	10.5	12.1
	80	0	<5	0	0		6.2	6.5	7	7.9	8.8	10.5	12.1
pH (SU)	80	0	<6	0	0		6.4	6.6	6.7	7	7.2	7.4	7.6
	80	0	>9	0	0		6.4	6.6	6.7	7	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				65	91	92	103	116	132	170
Water Temperature (°C)	80	0	>29	0	0		1.8	6	12.4	19.1	22.7	24.8	26
Other													
Turbidity (NTU)	56	0	>50	14	25	99.9	4.7	7.8	13.2	20.5	76.2	228	850

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
44	212.9	5	11.4

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: S DEEP CRK AT SR 1733 NR SHACKTOWN
Station #: Q2135000
Latitude: 36.10648 **Longitude:** -80.58765
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: WS-IV
NC stream index: 12-84-2-(5.5)

Time period: 01/26/2009 to 12/08/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	6.6	6.9	7.5	8.7	10.3	12
	88	0	<5	0	0		6.3	6.6	6.9	7.5	8.7	10.3	12
pH (SU)	88	0	<6	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.4
	88	0	>9	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				65	91	110	122	134	149	173
Water Temperature (°C)	88	0	>29	0	0		2.1	6	12.2	19.1	23	25	26.2

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	15	24.2	99.9	4	6.5	11	18	52.5	130.5	500

Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.02	0.02	0.03	0.04	0.07	0.07	0.07
NO2 + NO3 as N	6	0	>10	0	0		1.01	1.01	1.15	1.38	1.44	1.52	1.52
TKN as N	6	0	N/A				0.21	0.21	0.21	0.24	0.45	0.47	0.47
Total Phosphorus	6	3	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.03

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	151	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT US 158 AT CLEMMONS
Station #: Q2180000
Latitude: 36.01437 **Longitude:** -80.41637
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: WS-IV
NC stream index: 12-(86.7)

Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.8	7.4	8	9.2	10.8	12.2
	85	0	<5	0	0		6.4	6.8	7.4	8	9.2	10.8	12.2
pH (SU)	85	0	<6	0	0		6.4	6.8	7	7.1	7.2	7.3	7.4
	85	0	>9	0	0		6.4	6.8	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				53	81	104	116	128	140	163
Water Temperature (°C)	85	0	>29	0	0		2.7	6.2	10.8	19.6	23.8	25.5	28.6
Other													
TSS (mg/L)	59	2	N/A				2	5.3	8.8	24	47	79	573
Turbidity (NTU)	59	0	>50	18	30.5	>99.9	3.2	7.8	11	30	61	140	390
Nutrients (mg/L)													
NH3 as N	59	3	N/A				0.01	0.02	0.04	0.07	0.11	0.19	0.54
NO2 + NO3 as N	59	0	>10	0	0		0.33	0.45	0.52	0.62	0.7	0.77	0.93
TKN as N	59	1	N/A				0.2	0.22	0.33	0.47	0.74	1.16	2.4
Total Phosphorus	57	7	N/A				0.02	0.02	0.05	0.09	0.16	0.3	0.95
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
47	92.8	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MUDDY CRK AT I 40 NR CLEMMONS
Station #: Q2291000
Latitude: 36.04700 **Longitude:** -80.36623
Agency: YPDRBA

Hydrologic Unit Code: 03040101
Stream class: C
NC stream index: 12-94-(0.5)

Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	7.1	7.4	7.8	9.2	11.2	13
	88	0	<5	0	0		6.3	7.1	7.4	7.8	9.2	11.2	13
pH (SU)	88	0	<6	0	0		6.6	6.7	6.8	7	7.1	7.2	7.4
	88	0	>9	0	0		6.6	6.7	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				78	102	121	133	147	163	204
Water Temperature (°C)	88	0	>32	0	0		2.1	4.4	9.1	18.1	22.2	23.8	26.7

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	8	12.9	72.1	4.2	8.9	12	16	30.2	63.5	210

Nutrients (mg/L)													
NH3 as N	6	2	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.12
NO2 + NO3 as N	6	0	N/A				0.33	0.33	0.33	0.44	0.71	0.8	0.8
TKN as N	6	1	N/A				0.2	0.2	0.27	0.36	0.45	0.59	0.59
Total Phosphorus	6	3	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.06

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	143	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SALEM CRK AT SR 2740 REYNOLDS PARK RD NR WINSTON SALEM
Station #: Q2479455 **Hydrologic Unit Code:** 03040101
Latitude: 36.08843 **Longitude:** -80.21208 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-94-12-(4)

Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		5	6.6	7	7.6	9.1	10.9	12.6
	88	0	<5	0	0		5	6.6	7	7.6	9.1	10.9	12.6
pH (SU)	88	0	<6	0	0		6.5	6.7	6.8	7	7.1	7.2	7.3
	88	0	>9	0	0		6.5	6.7	6.8	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				93	102	123	139	161	176	226
Water Temperature (°C)	88	0	>32	0	0		2.2	4.5	9	17.8	22	24.2	27.2
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	7	11.3	57.2	4.7	8.1	12	16	31.2	74	220
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.03	0.03	0.03	0.05	0.1	0.12	0.12
NO2 + NO3 as N	6	0	N/A				0.41	0.41	0.43	0.47	0.63	0.72	0.72
TKN as N	6	0	N/A				0.27	0.27	0.3	0.33	0.36	0.44	0.44
Total Phosphorus	6	3	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.04
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	147.5	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SALEM CRK AT ELLEDGE WWTP AT WINSTON SALEM

Station #: Q2510000

Hydrologic Unit Code: 03040101

Latitude: 36.03878

Longitude: -80.30416

Stream class: C

Agency: NCAMBNT

NC stream index: 12-94-12-(4)

Time period: 01/20/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		5.8	6.5	7.1	8.7	10.7	13.6	15.9
	56	0	<5	0	0		5.8	6.5	7.1	8.7	10.7	13.6	15.9
pH (SU)	54	0	<6	0	0		6.7	7	7.2	7.3	7.4	7.6	8.2
	54	0	>9	0	0		6.7	7	7.2	7.3	7.4	7.6	8.2
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				77	96	117	148	164	188	1133
Water Temperature (°C)	56	0	>32	0	0		2	5.4	10.5	17.8	24.3	26	27.3
Other													
Hardness (mg/L)	14	0	N/A				30	30	34	41	44	48	50
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.5	15.5	75.8	110
Turbidity (NTU)	56	0	>50	5	8.9		1.6	2.6	3.2	7.2	13.8	51.5	140
Nutrients (mg/L)													
NH3 as N	56	0	N/A				0.04	0.07	0.09	0.17	0.25	0.41	1.1
NO2 + NO3 as N	56	0	N/A				0.11	0.54	0.74	1.05	1.2	1.43	3
TKN as N	56	0	N/A				0.34	0.39	0.44	0.52	0.67	0.96	1.4
Total Phosphorus	56	3	N/A				0.02	0.02	0.02	0.03	0.05	0.15	0.8

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	368.3	22	40	> 99.9

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SALEM CRK AT SR 1120 CLEMMONSVILLE RD AT WINSTON SALEM
Station #: Q2540000 **Hydrologic Unit Code:** 03040101
Latitude: 36.03115 **Longitude:** -80.31372 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-94-12-(4)

Time period: 01/27/2009 to 07/29/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		6.4	6.8	7.2	7.8	9.2	10.9	12.5
	80	0	<5	0	0		6.4	6.8	7.2	7.8	9.2	10.9	12.5
pH (SU)	80	0	<6	0	0		6.5	6.8	6.8	7	7.1	7.2	7.4
	80	0	>9	0	0		6.5	6.8	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				90	117	134	149	168	189	341
Water Temperature (°C)	80	0	>32	0	0		3.3	5.9	10.4	19.5	23.9	25	27.7
Other													
Turbidity (NTU)	56	0	>50	4	7.1		1.5	4.1	5.3	9.7	20.5	50	330
Nutrients (mg/L)													
NH3 as N	56	0	N/A				0.01	0.08	0.13	0.2	0.31	0.6	1.14
NO2 + NO3 as N	56	0	N/A				0.44	0.6	0.85	1.06	1.25	1.41	1.64
TKN as N	56	2	N/A				0.2	0.23	0.37	0.57	1.03	1.71	3.76
Total Phosphorus	54	3	N/A				0.02	0.03	0.04	0.05	0.09	0.12	0.53

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	134	3	6.8	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SALEM CRK AT SR 2991 FRATERNITY CHURCH RD NR WINSTON SALEM
Station #: Q2570000 **Hydrologic Unit Code:** 03040101
Latitude: 36.00855 **Longitude:** -80.33528 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-94-12-(4)

Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.2	6.6	6.9	7.5	8.7	10.3	11.9
	88	0	<5	0	0		6.2	6.6	6.9	7.5	8.7	10.3	11.9
pH (SU)	88	0	<6	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.3
	88	0	>9	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				124	163	186	211	258	319	564
Water Temperature (°C)	88	0	>32	0	0		3.9	6.7	11	19.5	24.1	25.6	29.5
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	3	4.8		1.6	4.9	6.2	9.6	17	42.3	180
Nutrients (mg/L)													
NH3 as N	62	0	N/A				0.03	0.08	0.09	0.15	0.2	0.32	0.84
NO2 + NO3 as N	62	0	N/A				1.37	2.33	3.5	4.46	5.52	7.15	8.96
TKN as N	62	1	N/A				0.2	0.67	0.85	0.94	1.36	1.79	3.98
Total Phosphorus	60	0	N/A				0.05	0.28	0.53	0.94	1.32	2.25	7.4
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	172	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MUDDY CRK AT SR 2995 NR MUDDY CREEK

Station #: Q2600000

Hydrologic Unit Code: 03040101

Latitude: 36.00001

Longitude: -80.34000

Stream class: C

Agency: NCAMBNT

NC stream index: 12-94-(0.5)

Time period: 01/20/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		5.5	6.3	7.1	8.4	10.6	13.1	15.2
	56	0	<5	0	0		5.5	6.3	7.1	8.4	10.6	13.1	15.2
pH (SU)	54	0	<6	0	0		6.7	7	7.1	7.2	7.4	7.6	8
	54	0	>9	0	0		6.7	7	7.1	7.2	7.4	7.6	8
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				68	107	186	245	306	380	806
Water Temperature (°C)	56	0	>32	0	0		2.8	6	10.8	17.7	24.3	25.3	27.4
Other													
Hardness (mg/L)	14	0	N/A				30	30	44	50	58	66	68
TSS (mg/L)	20	5	N/A				6.2	6.2	6.3	12	73.5	198.4	224
Turbidity (NTU)	56	0	>50	10	17.9	95	1.9	3.2	5.1	8.3	24.5	119	290
Nutrients (mg/L)													
NH3 as N	56	0	N/A				0.03	0.05	0.05	0.1	0.2	0.38	1.1
NO2 + NO3 as N	56	0	N/A				0.51	0.95	1.8	2.75	3.83	4.7	5.8
TKN as N	56	0	N/A				0.5	0.6	0.65	0.75	0.96	1.5	2.2
Total Phosphorus	56	0	N/A				0.02	0.25	0.48	0.67	0.88	1.19	2.7

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	469.4	25	45.5	> 99.9

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MUDDY CRK AT SR 1485 NR WINSTON SALEM

Station #: Q2720000

Hydrologic Unit Code: 03040101

Latitude: 35.94020

Longitude: -80.35800

Stream class: C

Agency: NCAMBNT

NC stream index: 12-94-(0.5)

Time period: 01/20/2009 to 04/05/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		6.2	6.7	7.8	9.7	12	13.9	16.1
	29	0	<5	0	0		6.2	6.7	7.8	9.7	12	13.9	16.1
pH (SU)	28	0	<6	0	0		6.5	6.8	7	7.1	7.2	7.7	7.8
	28	0	>9	0	0		6.5	6.8	7	7.1	7.2	7.7	7.8
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				103	136	168	233	271	337	380
Water Temperature (°C)	30	0	>32	0	0		3.6	5.6	8.1	14.4	22.1	24.3	25.7
Other													
Total Organic Carbon (mg/L as C)	30	0	N/A				3	3	3	4	5	6	13
TSS (mg/L)	30	3	N/A				6.2	7.8	12	22.5	39.5	64.9	295
Turbidity (NTU)	30	0	>50	5	16.7	82.4	6.6	10	12.5	18.5	37.5	69	390
Nutrients (mg/L)													
NH3 as N	30	0	N/A				0.02	0.03	0.06	0.08	0.13	0.33	0.47
NO2 + NO3 as N	30	0	N/A				0.8	0.96	1.4	2.1	2.43	2.8	4.3
TKN as N	30	0	N/A				0.47	0.52	0.58	0.65	0.8	0.99	1.5
Total Phosphorus	30	0	N/A				0.18	0.25	0.3	0.52	0.69	0.95	1.1

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MUDDY CRK AT SR 1485 NR WINSTON SALEM

Station #: Q2720000

Hydrologic Unit Code: 03040101

Latitude: 35.94020

Longitude: -80.35800

Stream class: C

Agency: YPDRBA

NC stream index: 12-94-(0.5)

Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.2	6.6	7	7.6	8.8	10.5	12.1
	88	0	<5	0	0		6.2	6.6	7	7.6	8.8	10.5	12.1
pH (SU)	88	0	<6	0	0		6.4	6.7	6.8	7	7.1	7.2	7.4
	88	0	>9	0	0		6.4	6.7	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				103	138	167	190	227	275	319
Water Temperature (°C)	88	0	>32	0	0		3.5	6.4	10.8	19.7	24.1	25.2	28

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	10	16.1	91.2	2.4	7	9.1	14.5	32	80	450

Nutrients (mg/L)

NH3 as N	62	0	N/A				0.03	0.05	0.07	0.11	0.17	0.56	0.87
NO2 + NO3 as N	62	0	N/A				0.75	1.32	1.7	2.43	3.18	3.84	5.2
TKN as N	62	0	N/A				0.25	0.46	0.55	0.69	0.89	1.39	2.46
Total Phosphorus	60	0	N/A				0.1	0.17	0.29	0.42	0.68	1.2	5.2

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	155.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT US 64 AT YADKIN COLLEGE

Station #: Q2810000

Hydrologic Unit Code: 03040101

Latitude: 35.85700

Longitude: -80.38628

Stream class: WS-IV CA

Agency: NCAMBNT

NC stream index: 12-(97.5)

Time period: 01/28/2009 to 12/04/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<4	0	0		5.4	6.3	7.2	8.8	11.9	13.4	14.8
	54	0	<5	0	0		5.4	6.3	7.2	8.8	11.9	13.4	14.8
pH (SU)	53	0	<6	0	0		6.3	6.8	7.1	7.4	7.6	7.9	8.3
	53	0	>9	0	0		6.3	6.8	7.1	7.4	7.6	7.9	8.3
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				51	60	74	88	106	115	148
Water Temperature (°C)	55	0	>32	0	0		2.8	4.8	9.1	15.9	23.4	26.5	28
Other													
Chlorophyll a (ug/L)	3	1	>40	0	0		1	1	1	1	2	2	2
Hardness (mg/L)	14	0	>100	0	0		5	12	22	24	28	32	35
Total Organic Carbon (mg/L as C)	15	1	N/A				2	2	2	3	4	14	22
TSS (mg/L)	30	5	N/A				6.2	6.2	11.5	16	50	168.8	410
Turbidity (NTU)	55	0	>50	12	21.8	99.3	2.6	6.3	8.4	20	45	113	280
Nutrients (mg/L)													
NH3 as N	15	1	N/A				0.02	0.02	0.03	0.04	0.06	0.11	0.14
NO2 + NO3 as N	15	0	>10	0	0		0.55	0.61	0.87	0.96	1.2	1.34	1.4
TKN as N	15	1	N/A				0.2	0.25	0.35	0.38	0.49	1.42	1.9
Total Phosphorus	15	0	N/A				0.09	0.1	0.13	0.18	0.25	0.68	1

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	182.8	12	21.8	57.9

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT US 64 AT YADKIN COLLEGE

Station #: Q2810000

Hydrologic Unit Code: 03040101

Latitude: 35.85700

Longitude: -80.38628

Stream class: WS-IV CA

Agency: YPDRBA

NC stream index: 12-(97.5)

Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.5	7.1	7.4	8	9.1	10.7	12.5
	88	0	<5	0	0		6.5	7.1	7.4	8	9.1	10.7	12.5
pH (SU)	88	0	<6	0	0		6.1	6.9	7.1	7.2	7.3	7.4	7.4
	88	0	>9	0	0		6.1	6.9	7.1	7.2	7.3	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	88	2	N/A				50	93	106	117	124	136	185
Water Temperature (°C)	88	0	>32	0	0		3.3	7.1	11.4	20.2	24.1	25.7	30.2
Other													
TSS (mg/L)	62	1	N/A				2.9	5.7	11	21	43	61.7	996
Turbidity (NTU)	62	0	>50	16	25.8	> 99.9	3.7	9.7	14	25.5	52	102.5	450
Nutrients (mg/L)													
NH3 as N	62	3	N/A				0.01	0.03	0.05	0.08	0.11	0.17	0.27
NO2 + NO3 as N	62	0	>10	0	0		0.48	0.7	0.84	0.96	1.14	1.32	3.09
TKN as N	62	5	N/A				0.2	0.25	0.33	0.48	0.75	1.43	2.71
Total Phosphorus	60	0	N/A				0.02	0.06	0.11	0.15	0.21	0.39	0.83
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	75.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: DUTCHMAN CRK AT US 64 NR MOCKSVILLE
Station #: Q3105000 **Hydrologic Unit Code:** 03040101
Latitude: 35.88107 **Longitude:** -80.50118 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-102-(2)
Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	6.7	7.1	7.7	9	10.8	12.3
	88	0	<5	0	0		6.3	6.7	7.1	7.7	9	10.8	12.3
pH (SU)	88	0	<6	0	0		6.5	6.7	6.8	7.1	7.2	7.2	7.3
	88	0	>9	0	0		6.5	6.7	6.8	7.1	7.2	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				103	115	126	138	158	172	231
Water Temperature (°C)	88	0	>32	0	0		3	6.3	10.3	19.3	23.2	24.4	25.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	4	6.5		3.9	6.1	9	14	22	38	240
Nutrients (mg/L)													
NH3 as N	6	1	N/A				0.02	0.02	0.05	0.06	0.08	0.09	0.09
NO2 + NO3 as N	6	0	N/A				1.15	1.15	1.73	2.05	6.08	6.08	6.08
TKN as N	6	0	N/A				0.42	0.42	0.62	0.8	0.9	0.9	0.9
Total Phosphorus	6	2	N/A				0.02	0.02	0.02	0.08	0.99	2.45	2.45

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	128.3	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: S YADKIN RIV AT SR 1159 NR MOCKSVILLE

Station #: Q3460000

Hydrologic Unit Code: 03040102

Latitude: 35.84478

Longitude: -80.65910

Stream class: WS-IV

Agency: NCAMBNT

NC stream index: 12-108-(14.5)

Time period: 01/28/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	0	0		6.4	6.7	7.5	9	12.3	13.6	14.6
	55	0	<5	0	0		6.4	6.7	7.5	9	12.3	13.6	14.6
pH (SU)	54	0	<6	0	0		6.2	7	7.2	7.4	7.5	8	8.3
	54	0	>9	0	0		6.2	7	7.2	7.4	7.5	8	8.3
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				41	67	70	73	78	84	182
Water Temperature (°C)	56	0	>32	0	0		1.4	4.4	9.3	15.1	22	24	25.8
Other													
Hardness (mg/L)	15	0	>100	0	0		22	23	25	26	27	33	40
Total Organic Carbon (mg/L as C)	15	3	N/A				2	2	2	2	4	5	5
TSS (mg/L)	31	4	N/A				6.2	9.1	16	30	46	159.2	1100
Turbidity (NTU)	55	0	>50	10	18.2	95.5	3.7	7.8	15	24	45	97	750
Nutrients (mg/L)													
NH3 as N	15	2	N/A				0.02	0.02	0.02	0.03	0.06	0.08	0.09
NO2 + NO3 as N	15	0	>10	0	0		0.51	0.53	0.62	0.8	0.84	0.94	0.96
TKN as N	15	2	N/A				0.2	0.2	0.27	0.35	0.63	0.87	0.97
Total Phosphorus	15	0	N/A				0.03	0.04	0.07	0.1	0.11	0.24	0.31

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	408.9	22	40	> 99.9

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: HUNTING CRK AT SR 2115 NR HARMONY

Station #: Q3484000

Hydrologic Unit Code: 03040102

Latitude: 36.00024

Longitude: -80.74562

Stream class: WS-III

Agency: NCAMBNT

NC stream index: 12-108-16-(0.5)

Time period: 01/06/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.9	7.9	8.4	9.8	12.1	13.4	14.4
	60	0	<5	0	0		6.9	7.9	8.4	9.8	12.1	13.4	14.4
pH (SU)	60	0	<6	0	0		6	6.2	6.6	7.3	7.6	7.9	8.5
	60	0	>9	0	0		6	6.2	6.6	7.3	7.6	7.9	8.5
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				28	51	55	58	60	64	69
Water Temperature (°C)	60	0	>32	0	0		0.4	4.3	8.2	15.6	21.3	24.3	28.1
Other													
Hardness (mg/L)	13	0	>100	0	0		15	15	16	17	20	33	41
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	12.5	45.8	235.1	1600
Turbidity (NTU)	60	0	>50	7	11.7	60.5	1.4	2.7	5	7.5	20.5	55	700

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	188.5	15	25.4	81.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: BEAR CRK AT SR 1116 JUNCTION RD NR COOLEEMEE
Station #: Q3555000 **Hydrologic Unit Code:** 03040102
Latitude: 35.82560 **Longitude:** -80.58500 **Stream class:** WS-IV
Agency: YPDRBA **NC stream index:** 12-108-18-(3)

Time period: 01/26/2009 to 07/29/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		5.6	6.3	6.7	7.4	8.7	10.4	11.5
	80	0	<5	0	0		5.6	6.3	6.7	7.4	8.7	10.4	11.5
pH (SU)	80	0	<6	0	0		6.5	6.6	6.7	6.9	7.1	7.2	7.4
	80	0	>9	0	0		6.5	6.6	6.7	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				82	114	131	146	163	181	215
Water Temperature (°C)	80	0	>32	0	0		2.6	6.2	10.5	19.8	23.4	25.8	27
Other													
Turbidity (NTU)	56	0	>50	6	10.7	50.6	3.4	7.4	9.4	14.5	34.5	56.5	850

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
44	210.8	6	13.6

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FOURTH CRK AT SR 2316 BELL FARM RD NR STATESVILLE
Station #: Q3720000 **Hydrologic Unit Code:** 03040102
Latitude: 35.77607 **Longitude:** -80.79582 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-108-20
Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.1	6.8	7.5	8	9.4	11.1	11.7
	88	0	<5	0	0		6.1	6.8	7.5	8	9.4	11.1	11.7
pH (SU)	88	0	<6	0	0		6.4	6.8	7	7.1	7.3	7.3	7.4
	88	0	>9	0	0		6.4	6.8	7	7.1	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				76	96	107	119	128	147	196
Water Temperature (°C)	88	0	>32	0	0		2.1	6	10.5	19	22.8	24.8	26.5

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	11	17.7	95.7	5	8.7	11	17.5	34	144	500

Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.04	0.04	0.05	0.06	0.12	0.2	0.2
NO2 + NO3 as N	6	0	N/A				0.73	0.73	0.73	0.78	0.89	0.91	0.91
TKN as N	6	0	N/A				0.28	0.28	0.29	0.38	0.42	0.42	0.42
Total Phosphorus	6	5	N/A				0.02	0.02	0.02	0.02	0.04	0.09	0.09

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	147.1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FOURTH CRK AT SR 2308 NR ELMWOOD

Station #: Q3735000

Hydrologic Unit Code: 03040102

Latitude: 35.76841

Longitude: -80.74978

Stream class: C

Agency: NCAMBNT

NC stream index: 12-108-20

Time period: 01/06/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		6.1	7.2	7.5	8.7	11	12.3	13.1
	58	0	<5	0	0		6.1	7.2	7.5	8.7	11	12.3	13.1
pH (SU)	60	0	<6	0	0		6.2	6.4	6.8	7.3	7.5	7.7	8.8
	60	0	>9	0	0		6.2	6.4	6.8	7.3	7.5	7.7	8.8
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				80	104	122	143	157	167	195
Water Temperature (°C)	60	0	>32	0	0		2.7	5.8	9.4	15.9	21.6	23.7	24.7
Other													
Hardness (mg/L)	13	0	N/A				34	36	40	41	46	49	50
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	9.4	44	191.2	520
Turbidity (NTU)	60	0	>50	12	20	98.5	2.7	5.2	7.9	11.5	38	94.5	350
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.02	0.02	0.02	0.03	0.07	0.1	0.24
NO2 + NO3 as N	60	0	N/A				0.47	0.74	0.92	1.2	1.68	2.2	3.9
TKN as N	60	2	N/A				0.2	0.25	0.31	0.4	0.46	0.76	2.6
Total Phosphorus	59	0	N/A				0.04	0.09	0.13	0.23	0.31	0.45	0.99

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	366.6	23	39	99.9

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: FOURTH CRK AT SR 2308 NR ELMWOOD

Station #: Q3735000

Hydrologic Unit Code: 03040102

Latitude: 35.76841

Longitude: -80.74978

Stream class: C

Agency: YPDRBA

NC stream index: 12-108-20

Time period: 01/26/2009 to 07/29/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	74	0	<4	0	0		6.2	6.8	7.4	8	9.5	11.2	11.9
	74	0	<5	0	0		6.2	6.8	7.4	8	9.5	11.2	11.9
pH (SU)	74	0	<6	0	0		6.2	6.8	7	7.1	7.2	7.3	7.4
	74	0	>9	0	0		6.2	6.8	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	74	0	N/A				79	112	125	134	150	161	207
Water Temperature (°C)	74	0	>32	0	0		2.4	5.5	9.7	19.2	23.1	25	26.8

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	53	0	>50	12	22.6	99.5	4.7	10	12	20	42.5	126	360

Nutrients (mg/L)

NH3 as N	0	0	N/A										
NO2 + NO3 as N	0	0	N/A										
TKN as N	0	0	N/A										
Total Phosphorus	0	0	N/A										

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
41	106.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: THIRD CRK AT SR 2342 AMITY HILL RD NR STATESVILLE

Station #: Q3900000

Hydrologic Unit Code: 03040102

Latitude: 35.74920

Longitude: -80.87748

Stream class: C

Agency: YPDRBA

NC stream index: 12-108-20-4

Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.2	6.7	7.3	8	9.4	11.1	11.8
	88	0	<5	0	0		6.2	6.7	7.3	8	9.4	11.1	11.8
pH (SU)	88	0	<6	0	0		6.2	6.8	6.9	7.1	7.2	7.3	7.4
	88	0	>9	0	0		6.2	6.8	6.9	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				63	97	112	124	136	155	185
Water Temperature (°C)	88	0	>32	0	0		2.5	5.6	10.7	18.9	23.7	24.8	27.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	10	16.1	91.2	4.1	8.5	12	18	34.2	63.5	250
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.03	0.03	0.04	0.04	0.06	0.07	0.07
NO2 + NO3 as N	6	0	N/A				0.45	0.45	0.52	0.58	0.69	0.76	0.76
TKN as N	6	0	N/A				0.24	0.24	0.29	0.3	0.38	0.54	0.54
Total Phosphorus	6	5	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.03

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	117.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: THIRD CRK AT SR 2359 BETHESDA RD NR STATESVILLE

Station #: Q3932000

Hydrologic Unit Code: 03040102

Latitude: 35.73302

Longitude: -80.80395

Stream class: C

Agency: YPDRBA

NC stream index: 12-108-20-4

Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.2	6.7	7.2	7.9	9.3	11.1	11.6
	88	0	<5	0	0		6.2	6.7	7.2	7.9	9.3	11.1	11.6
pH (SU)	88	0	<6	0	0		6.4	6.7	6.9	7.1	7.2	7.3	7.4
	88	0	>9	0	0		6.4	6.7	6.9	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				64	102	109	118	139	154	203
Water Temperature (°C)	88	0	>32	0	0		2.4	5.9	10.8	19.2	23.2	25	27.4
Other													
TSS (mg/L)	6	0	N/A				7.3	7.3	8	9	16	16	16
Turbidity (NTU)	62	0	>50	9	14.5	83.6	5.2	10.3	13.8	19.5	36.5	78.5	220
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.02	0.02	0.04	0.05	0.08	0.09	0.09
NO2 + NO3 as N	6	0	N/A				0.47	0.47	0.53	0.59	0.7	0.78	0.78
TKN as N	6	0	N/A				0.31	0.31	0.34	0.38	0.39	0.41	0.41
Total Phosphorus	6	5	N/A				0.02	0.02	0.02	0.02	0.04	0.09	0.09
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	136.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: THIRD CRK AT SR 1970 NR WOODLEAF
Station #: Q3934500
Latitude: 35.76742 **Longitude:** -80.62609
Agency: NCAMBNT

Hydrologic Unit Code: 03040102
Stream class: C
NC stream index: 12-108-20-4

Time period: 01/06/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		6.4	6.9	7.4	8.3	10.7	11.9	13.5
	58	0	<5	0	0		6.4	6.9	7.4	8.3	10.7	11.9	13.5
pH (SU)	60	0	<6	1	1.7		5.9	6.4	6.8	7.4	7.5	7.6	7.8
	60	0	>9	0	0		5.9	6.4	6.8	7.4	7.5	7.6	7.8
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				75	92	110	125	142	171	199
Water Temperature (°C)	60	0	>32	0	0		2.3	5.2	9.4	15.9	21.7	23.9	25.8
Other													
Hardness (mg/L)	14	0	N/A				32	32	35	37	40	46	49
TSS (mg/L)	20	2	N/A				6.2	6.4	10.5	14.5	27	166.1	327
Turbidity (NTU)	60	0	>50	14	23.3	99.8	3.3	7.3	11	16.5	46.2	149	300

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	479	26	44.1	> 99.9

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: S YADKIN RIV AT US 601 NR COOLEEMEE

Station #: Q3970000

Hydrologic Unit Code: 03040102

Latitude: 35.77838

Longitude: -80.50673

Stream class: C

Agency: YPDRBA

NC stream index: 12-108-(19.5)

Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	6.6	7.2	7.8	9.2	10.7	11.6
	88	0	<5	0	0		6.3	6.6	7.2	7.8	9.2	10.7	11.6
pH (SU)	88	0	<6	0	0		6.5	6.9	7	7.1	7.2	7.3	7.4
	88	0	>9	0	0		6.5	6.9	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				68	102	112	120	128	144	160
Water Temperature (°C)	88	0	>32	0	0		3.7	7	12	20.2	24.1	26.5	28.1

Other

TSS (mg/L)	62	0	N/A				4.6	8.2	13	22	39.8	96.1	251
Turbidity (NTU)	62	0	>50	12	19.4	98.1	6.5	11	18	27.5	50	117	220

Nutrients (mg/L)

NH3 as N	62	3	N/A				0.01	0.03	0.05	0.08	0.12	0.19	0.49
NO2 + NO3 as N	62	0	N/A				0.57	0.62	0.79	0.87	1	1.07	1.25
TKN as N	62	3	N/A				0.2	0.23	0.32	0.46	0.8	1.29	3.73
Total Phosphorus	60	2	N/A				0.02	0.03	0.06	0.09	0.15	0.23	0.52

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	100.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SECOND CRK AT SR 1526 NR SALISBURY

Station #: Q4030000

Hydrologic Unit Code: 03040102

Latitude: 35.69702

Longitude: -80.61172

Stream class: C

Agency: YPDRBA

NC stream index: 12-108-21

Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		5.8	6.4	6.8	7.4	8.8	10.3	11.4
	88	0	<5	0	0		5.8	6.4	6.8	7.4	8.8	10.3	11.4
pH (SU)	88	0	<6	0	0		6.4	6.6	6.8	6.9	7	7.2	7.4
	88	0	>9	0	0		6.4	6.6	6.8	6.9	7	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				117	127	141	158	171	203	236
Water Temperature (°C)	88	0	>32	0	0		2.9	6.5	11	19.8	23.4	25.8	27.4

Other

TSS (mg/L)	6	0	N/A				5.1	5.1	5.5	6.2	10.9	16	16
Turbidity (NTU)	62	0	>50	9	14.5	83.6	3.5	8.3	11	17	32.2	105.5	750

Nutrients (mg/L)

NH3 as N	6	0	N/A				0.03	0.03	0.05	0.06	0.09	0.13	0.13
NO2 + NO3 as N	6	0	N/A				0.44	0.44	0.44	0.52	0.7	0.71	0.71
TKN as N	6	0	N/A				0.22	0.22	0.26	0.33	0.36	0.43	0.43
Total Phosphorus	6	4	N/A				0.02	0.02	0.02	0.02	0.03	0.03	0.03

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	257.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SECOND CRK AT US 70 NR BARBER
Station #: Q4120000
Latitude: 35.71840 **Longitude:** -80.59538
Agency: NCAMBNT

Hydrologic Unit Code: 03040102
Stream class: C
NC stream index: 12-108-21

Time period: 01/20/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	1	1.8		2.1	7.1	7.6	8.9	11.3	12.7	14.3
	57	0	<5	1	1.8		2.1	7.1	7.6	8.9	11.3	12.7	14.3
pH (SU)	59	0	<6	0	0		6	6.4	6.9	7.4	7.6	7.7	8.1
	59	0	>9	0	0		6	6.4	6.9	7.4	7.6	7.7	8.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				82	104	119	131	139	144	167
Water Temperature (°C)	60	0	>32	0	0		2.5	4.7	9.2	15.7	21.5	24.1	26.1
Other													
Hardness (mg/L)	14	0	N/A				43	44	45	46	48	50	50
Total Organic Carbon (mg/L as C)	15	5	N/A				2	2	2	2	3	4	4
TSS (mg/L)	30	11	N/A				6.2	6.2	7.4	12	24	86.7	150
Turbidity (NTU)	60	0	>50	10	16.7	92.7	2.9	5.3	8.1	13.5	24	140	320
Nutrients (mg/L)													
NH3 as N	15	4	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.04
NO2 + NO3 as N	15	0	N/A				0.31	0.35	0.67	0.72	0.84	0.85	0.86
TKN as N	15	2	N/A				0.2	0.2	0.23	0.3	0.34	0.43	0.54
Total Phosphorus	15	0	N/A				0.04	0.05	0.06	0.07	0.09	0.14	0.21

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	336.4	16	27.1	88.3

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SECOND CRK AT US 601 NR SALISBURY
Station #: Q4165000
Latitude: 35.76247 **Longitude:** -80.51075
Agency: YPDRBA

Hydrologic Unit Code: 03040102
Stream class: C
NC stream index: 12-108-21

Time period: 01/26/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	6.5	7	7.6	9	10.6	11.5
	88	0	<5	0	0		6.3	6.5	7	7.6	9	10.6	11.5
pH (SU)	88	0	<6	0	0		6.6	6.8	6.9	7	7.1	7.3	7.4
	88	0	>9	0	0		6.6	6.8	6.9	7	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				98	114	121	128	143	164	207
Water Temperature (°C)	88	0	>32	0	0		3.1	6.8	11.2	19.9	23.9	26.2	27.8
Other													
TSS (mg/L)	6	0	N/A				4.1	4.1	4.7	4.9	13.7	29	29
Turbidity (NTU)	62	0	>50	10	16.1	91.2	4.5	8.4	11.8	18	36	131	750
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.04	0.04	0.04	0.05	0.09	0.15	0.15
NO2 + NO3 as N	6	0	N/A				0.35	0.35	0.37	0.39	0.59	0.63	0.63
TKN as N	6	0	N/A				0.31	0.31	0.33	0.47	0.55	0.63	0.63
Total Phosphorus	6	4	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.03
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	124.6	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GRANTS CRK AT SR 1915 NR SALISBURY

Station #: Q4540000

Hydrologic Unit Code: 03040103

Latitude: 35.70718

Longitude: -80.43608

Stream class: C

Agency: NCAMBNT

NC stream index: 12-110

Time period: 01/07/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	1	1.7		2.9	6.1	6.7	8.3	11.1	11.8	13.8
	58	0	<5	1	1.7		2.9	6.1	6.7	8.3	11.1	11.8	13.8
pH (SU)	60	0	<6	1	1.7		5.9	6.4	6.8	7.5	7.7	7.9	8.3
	60	0	>9	0	0		5.9	6.4	6.8	7.5	7.7	7.9	8.3
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				77	107	128	150	173	194	262
Water Temperature (°C)	60	0	>32	0	0		1.6	5.5	9.9	15.9	22.1	23.7	26
Other													
Hardness (mg/L)	14	0	N/A				36	36	46	52	64	74	75
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	16.2	89.4	322
Turbidity (NTU)	60	0	>50	5	8.3		2.4	3.3	5.4	8.7	16.8	49	270
Nutrients (mg/L)													
NH3 as N	59	23	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.08
NO2 + NO3 as N	59	2	N/A				0.02	0.1	0.21	0.34	0.4	0.47	0.68
TKN as N	58	3	N/A				0.2	0.21	0.25	0.31	0.39	0.55	1.4
Total Phosphorus	58	0	N/A				0.02	0.03	0.04	0.05	0.07	0.11	0.51
Metals (ug/L)													
Arsenic, dissolved (As)	28	28	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	1	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	28	22	>7	0	0		2	2	2	2	2	2	3
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	0	N/A				49	52	79	98	140	398	420
Nickel, dissolved (Ni)	28	28	>88	0	0		2	2	2	2	2	10	10
Zinc, dissolved (Zn)	27	26	>50	0	0		10	10	10	10	10	10	11

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	344.4	19	32.8	98.5

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GRANTS CRK AT SR 1915 NR SALISBURY

Station #: Q4540000

Hydrologic Unit Code: 03040103

Latitude: 35.70718

Longitude: -80.43608

Stream class: C

Agency: NCS PST

NC stream index: 12-110

Time period: 10/24/2011 to 10/27/2011

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Other													
Hardness (mg/L)	4	0	N/A				56	56	56	60	62	63	63
Metals (ug/L)													
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	4	4	>7	0	0		2	2	2	2	2	2	2
Copper, total (Cu)	4	4	>7	0	0		2	2	2	2	2	2	2
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2	2
Manganese, dissolved (Mn)	4	0	N/A				130	130	130	130	138	140	140
Manganese, total (Mn)	4	0	N/A				130	130	132	145	150	150	150
Nickel, dissolved (Ni)	4	4	>88	0	0		2	2	2	2	2	2	2
Nickel, total (Ni)	4	4	>88	0	0		2	2	2	2	2	2	2
Zinc, dissolved (Zn)	4	4	>50	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	4	4	>50	0	0		10	10	10	10	10	10	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GRANTS CRK AT SR 1915 NR SALISBURY

Station #: Q4540000

Hydrologic Unit Code: 03040103

Latitude: 35.70718

Longitude: -80.43608

Stream class: C

Agency: YPDRBA

NC stream index: 12-110

Time period: 01/27/2009 to 07/30/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		6	6.4	6.7	7.5	8.7	10.8	11.8
	80	0	<5	0	0		6	6.4	6.7	7.5	8.7	10.8	11.8
pH (SU)	80	0	<6	0	0		6.6	6.8	6.9	7	7.1	7.2	7.3
	80	0	>9	0	0		6.6	6.8	6.9	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				96	118	131	151	170	186	225
Water Temperature (°C)	80	0	>32	0	0		3	5	11.4	19.9	23.9	25.8	28.1
Other													
Turbidity (NTU)	56	0	>50	1	1.8		2.7	5.8	8.2	14	20.5	33.1	120

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
44	123.1	5	11.4

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT NC 150 NR SPENCER
Station #: Q4660000
Latitude: 35.72303 **Longitude:** -80.39050
Agency: NCAMBNT

Hydrologic Unit Code: 03040103
Stream class: WS-V
NC stream index: 12-(108.5)

Time period: 01/07/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	1	1.7		1	6	6.7	7.7	10.8	12.1	13.6
	58	0	<5	1	1.7		1	6	6.7	7.7	10.8	12.1	13.6
pH (SU)	60	0	<6	0	0		6	6.2	6.7	7.4	7.6	8	8.2
	60	0	>9	0	0		6	6.2	6.7	7.4	7.6	8	8.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				45	68	81	94	106	117	161
Water Temperature (°C)	60	0	>32	0	0		1.1	5.6	8.9	18.2	24.6	28.2	30.9

Other													
Chlorophyll a (ug/L)	3	0	>40	0	0		5	5	5	10	19	19	19
Hardness (mg/L)	13	0	>100	0	0		22	22	24	27	29	36	40
TSS (mg/L)	20	0	N/A				10	10.1	12.2	20.5	27.5	324.3	500
Turbidity (NTU)	60	0	>50	11	18.3	96.6	5.6	8.3	13.2	24	35	88	400

Metals (ug/L)													
Arsenic, dissolved (As)	28	28	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	1	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	28	24	>7	0	0		2	2	2	2	2	3	4
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	0	>200	0	0		40	42	46	61	76	129	140
Nickel, dissolved (Ni)	28	28	>25	0	0		2	2	2	2	2	10	10
Zinc, dissolved (Zn)	28	26	>50	0	0		10	10	10	10	10	10	12

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
58	116	10	17.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT NC 150 NR SPENCER
Station #: Q4660000
Latitude: 35.72303 **Longitude:** -80.39050
Agency: NCS PST

Hydrologic Unit Code: 03040103
Stream class: WS-V
NC stream index: 12-(108.5)

Time period: 10/24/2011 to 10/27/2011

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Other													
Hardness (mg/L)	4	0	>100	0	0		27	27	27	28	28	28	28
Metals (ug/L)													
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	4	4	>7	0	0		2	2	2	2	2	2	2
Copper, total (Cu)	4	4	>7	0	0		2	2	2	2	2	2	2
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2	2
Manganese, dissolved (Mn)	4	0	>200	0	0		46	46	47	56	64	65	65
Manganese, total (Mn)	4	0	>200	0	0		58	58	58	68	78	79	79
Nickel, dissolved (Ni)	4	4	>25	0	0		2	2	2	2	2	2	2
Nickel, total (Ni)	4	4	>25	0	0		2	2	2	2	2	2	2
Zinc, dissolved (Zn)	4	4	>50	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	4	4	>50	0	0		10	10	10	10	10	10	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT NC 150 NR SPENCER
Station #: Q4660000
Latitude: 35.72303 **Longitude:** -80.39050
Agency: YPDRBA

Hydrologic Unit Code: 03040103
Stream class: WS-V
NC stream index: 12-(108.5)

Time period: 01/27/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		5.9	6.4	7	7.6	8.8	10.6	11.5
	80	0	<5	0	0		5.9	6.4	7	7.6	8.8	10.6	11.5
pH (SU)	80	0	<6	0	0		6.6	6.7	6.9	7.1	7.2	7.2	7.4
	80	0	>9	0	0		6.6	6.7	6.9	7.1	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				79	115	124	137	150	168	202
Water Temperature (°C)	80	0	>32	0	0		3.4	5.3	10.5	19.6	24.5	25.3	29.5
Other													
Chlorophyll a (ug/L)	8	0	>40	0	0		2	2	10	17	28	39	39
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	57	0	>50	5	8.8		6.2	9.6	16	22	27.5	52	160
Nutrients (mg/L)													
NH3 as N	57	0	N/A				0.02	0.05	0.07	0.08	0.11	0.2	1.27
NO2 + NO3 as N	57	0	>10	0	0		0.17	0.23	0.43	0.61	0.95	1.08	1.59
TKN as N	57	2	N/A				0.2	0.41	0.54	0.69	0.81	1.04	2.26
Total Phosphorus	55	1	N/A				0.02	0.05	0.07	0.1	0.14	0.21	0.64
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
45	94.8	4	8.9	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: SWEARING CRK AT SR 1272 JERSEY CHURCH RD NR LINWOOD
Station #: Q5135000 **Hydrologic Unit Code:** 03040103
Latitude: 35.72911 **Longitude:** -80.30566 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-113

Time period: 01/27/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		4.7	5.8	6.4	6.8	8.3	10.1	11.3
	88	0	<5	1	1.1		4.7	5.8	6.4	6.8	8.3	10.1	11.3
pH (SU)	88	0	<6	0	0		6.4	6.5	6.6	6.8	7	7.1	7.3
	88	0	>9	0	0		6.4	6.5	6.6	6.8	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				73	133	154	171	179	241	410
Water Temperature (°C)	88	0	>32	0	0		2.9	4.8	11.1	19.3	23.4	25.3	27.6
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	3	4.8		2	7.9	10	16	25.5	43.5	600
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.04	0.04	0.05	0.08	0.1	0.1	0.1
NO2 + NO3 as N	6	0	N/A				0.14	0.14	0.14	0.32	0.44	0.5	0.5
TKN as N	6	0	N/A				0.37	0.37	0.42	0.45	0.59	0.88	0.88
Total Phosphorus	6	2	N/A				0.02	0.02	0.02	0.07	0.19	0.44	0.44

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	193.4	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TOWN CRK AT SR 1915 ANDREWS ST AT SPENCER
Station #: Q5210000 **Hydrologic Unit Code:** 03040103
Latitude: 35.67981 **Longitude:** -80.41552 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-115-3

Time period: 01/27/2009 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	87	0	<4	0	0		5.6	6.4	6.7	7.5	8.5	10.4	11.4
	87	0	<5	0	0		5.6	6.4	6.7	7.5	8.5	10.4	11.4
pH (SU)	87	0	<6	0	0		6.5	6.7	6.9	7	7.2	7.2	7.7
	87	0	>9	0	0		6.5	6.7	6.9	7	7.2	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	87	0	N/A				81	136	154	168	191	236	325
Water Temperature (°C)	87	0	>32	0	0		3.2	5.4	11.7	19.9	23.8	26	28.5
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	2	3.3		1.3	3.1	4.5	9.1	16	26	110
Nutrients (mg/L)													
NH3 as N	61	9	N/A				0.01	0.01	0.03	0.05	0.07	0.14	0.35
NO2 + NO3 as N	61	2	N/A				0.02	0.04	0.2	0.36	0.61	0.79	1.1
TKN as N	61	4	N/A				0.2	0.24	0.37	0.54	0.73	1.01	2.62
Total Phosphorus	59	8	N/A				0.02	0.02	0.03	0.05	0.07	0.13	0.59
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	159.5	6	12	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TOWN CRK AT SR 2168 NR DUKE
Station #: Q5360000
Latitude: 35.66353 **Longitude:** -80.35418
Agency: NCAMBNT

Hydrologic Unit Code: 03040103
Stream class: WS-V
NC stream index: 12-(108.5)

Time period: 01/07/2009 to 11/25/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	0	0		6.2	7.7	8.4	9.5	10.4	11.1	13.5
	59	0	<5	0	0		6.2	7.7	8.4	9.5	10.4	11.1	13.5
pH (SU)	61	0	<6	1	1.6		5.8	6.4	7.5	8.1	8.9	9.3	9.5
	61	0	>9	11	18	96.2	5.8	6.4	7.5	8.1	8.9	9.3	9.5
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				78	90	101	106	116	138	326
Water Temperature (°C)	61	0	>32	4	6.6		2.6	6.7	10.8	20.6	28.6	30.9	34.1
Other													
Chlorophyll a (ug/L)	59	0	>40	28	47.5	> 99.9	5	19	25	40	51	64	75
Hardness (mg/L)	14	0	>100	0	0		27	28	31	34	38	46	54
TSS (mg/L)	21	4	N/A				6.2	8.2	9.5	12	16	17	18
Turbidity (NTU)	61	0	>25	9	14.8	84.7	5.9	7.8	9.5	12	18	44	85
Nutrients (mg/L)													
NH3 as N	60	45	N/A				0.02	0.02	0.02	0.02	0.02	0.1	0.28
NO2 + NO3 as N	60	30	>10	0	0		0.02	0.02	0.02	0.02	0.16	0.28	0.38
TKN as N	59	0	N/A				0.4	0.6	0.66	0.8	0.94	1	1.4
Total Phosphorus	59	0	N/A				0.03	0.05	0.06	0.08	0.09	0.11	0.21

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
59	10.8	1	1.7

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: RICH FORK CRK AT SR 1757 CHESTNUT ST NR HIGH POINT
Station #: Q5745000 **Hydrologic Unit Code:** 03040103
Latitude: 35.96510 **Longitude:** -80.07869 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-119-7

Time period: 11/17/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	73	0	<4	0	0		5.8	6.5	7.1	7.7	8.8	10.6	11.9
	73	0	<5	0	0		5.8	6.5	7.1	7.7	8.8	10.6	11.9
pH (SU)	73	0	<6	0	0		6.5	6.8	7	7.1	7.2	7.4	7.5
	73	0	>9	0	0		6.5	6.8	7	7.1	7.2	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	73	0	N/A				88	111	124	144	165	209	270
Water Temperature (°C)	73	0	>32	0	0		3.6	6.6	10.4	19.5	23.6	24.9	26.2

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	52	0	>50	5	9.6		4.1	4.8	5.5	9.4	15	53.7	190

Nutrients (mg/L)													
NH3 as N	52	1	N/A				0.02	0.03	0.05	0.07	0.1	0.16	0.42
NO2 + NO3 as N	52	2	N/A				0.02	0.06	0.15	0.21	0.47	1.3	2.36
TKN as N	52	2	N/A				0.2	0.24	0.31	0.45	0.7	1.08	2.43
Total Phosphorus	50	4	N/A				0.02	0.02	0.04	0.06	0.1	0.15	0.28

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	93.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: RICH FORK CRK AT SR 1755 NR HIGH POINT

Station #: Q5750000

Hydrologic Unit Code: 03040103

Latitude: 35.94891

Longitude: -80.10170

Stream class: C

Agency: YPDRBA

NC stream index: 12-119-7

Time period: 01/27/2009 to 10/20/2009

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	12	0	<4	0	0		6	6.1	6.5	7.1	9.8	10.8	10.9
	12	0	<5	0	0		6	6.1	6.5	7.1	9.8	10.8	10.9
pH (SU)	12	0	<6	0	0		6.7	6.7	6.7	6.9	7	7.2	7.3
	12	0	>9	0	0		6.7	6.7	6.7	6.9	7	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	12	0	N/A				157	166	191	195	228	286	301
Water Temperature (°C)	12	0	>32	0	0		4	5	8.8	16.9	22.2	23.7	24.2
Other													
Turbidity (NTU)	5	0	>50	2	40		6	6	6.2	16	137.5	220	220
Nutrients (mg/L)													
NH3 as N	5	2	N/A				0.01	0.01	0.01	0.07	0.11	0.13	0.13
NO2 + NO3 as N	5	0	N/A				0.07	0.07	0.12	0.22	2.86	5.44	5.44
TKN as N	5	1	N/A				0.2	0.2	0.49	0.86	1.68	1.87	1.87
Total Phosphorus	5	1	N/A				0.02	0.02	0.05	0.17	0.48	0.54	0.54

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: RICH FORK AT SR 1800 NR THOMASVILLE

Station #: Q5780000

Hydrologic Unit Code: 03040103

Latitude: 35.92668

Longitude: -80.12464

Stream class: C

Agency: NCAMBNT

NC stream index: 12-119-7

Time period: 01/08/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	1	1.8		3.9	5.2	6.1	7.5	10.6	12.1	15.2
	55	0	<5	4	7.3		3.9	5.2	6.1	7.5	10.6	12.1	15.2
pH (SU)	55	0	<6	0	0		6.7	7	7.1	7.2	7.4	7.4	8.6
	55	0	>9	0	0		6.7	7	7.1	7.2	7.4	7.4	8.6
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				59	165	226	292	346	413	538
Water Temperature (°C)	56	0	>32	0	0		3.5	7	10	16.9	23.2	24.7	27.6
Other													
Hardness (mg/L)	14	0	N/A				53	56	61	70	80	94	100
TSS (mg/L)	19	12	N/A				6.2	6.2	6.2	6.2	11	26	39
Turbidity (NTU)	58	0	>50	2	3.4		2.1	2.4	4.2	8.1	18	45	100
Nutrients (mg/L)													
NH3 as N	58	4	N/A				0.02	0.02	0.04	0.06	0.14	0.56	1.1
NO2 + NO3 as N	58	0	N/A				0.26	1.08	1.8	2.95	4.62	6.94	9
TKN as N	58	0	N/A				0.49	0.65	0.73	0.9	1.2	1.6	2.2
Total Phosphorus	58	0	N/A				0.06	0.1	0.12	0.2	0.32	0.48	0.76

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	265.5	21	36.2	99.7

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Resources
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Location: RICH FORK CRK AT SR 1792 NR HIGH POINT

Station #: Q5785000

Hydrologic Unit Code: 03040103

Latitude: 35.89843

Longitude: -80.14540

Stream class: C

Agency: YPDRBA

NC stream index: 12-119-7

Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	1	1.1		3.4	5.3	5.8	6.3	7.3	9.1	10.9
	88	0	<5	2	2.3		3.4	5.3	5.8	6.3	7.3	9.1	10.9
pH (SU)	88	0	<6	0	0		6.1	6.4	6.5	6.8	7	7.2	7.4
	88	0	>9	0	0		6.1	6.4	6.5	6.8	7	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				103	158	182	216	271	355	432
Water Temperature (°C)	88	0	>32	0	0		3.5	6.1	10.2	19.2	23	24.8	25.9

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	7	11.3	57.2	3.3	5.1	7.7	14	25.5	60	370

Nutrients (mg/L)

NH3 as N	62	0	N/A				0.02	0.05	0.08	0.11	0.16	0.29	0.66
NO2 + NO3 as N	62	0	N/A				0.41	0.85	1.52	2.79	4.33	6.41	7.43
TKN as N	62	1	N/A				0.2	0.56	0.64	0.91	1.2	1.98	3.08
Total Phosphorus	60	1	N/A				0.02	0.05	0.09	0.15	0.27	0.58	0.81

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	285.2	8	16	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: RICH FORK CRK AT SR 2123 NR HIGH POINT

Station #: Q5790000

Hydrologic Unit Code: 03040103

Latitude: 35.85433

Longitude: -80.18215

Stream class: C

Agency: YPDRBA

NC stream index: 12-119-7

Time period: 03/17/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		4.1	5.8	6.4	6.9	7.9	9.2	10.8
	86	0	<5	1	1.2		4.1	5.8	6.4	6.9	7.9	9.2	10.8
pH (SU)	86	0	<6	0	0		6.3	6.5	6.6	6.9	7.1	7.3	7.4
	86	0	>9	0	0		6.3	6.5	6.6	6.9	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				94	142	168	195	224	292	382
Water Temperature (°C)	86	0	>32	0	0		3.8	7.7	10.9	20	23.4	24.9	26.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	5	8.3		3.4	5.5	7.8	12	21.5	48.4	280
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.04	0.07	0.1	0.14	0.21	0.84
NO2 + NO3 as N	60	0	N/A				0.43	0.6	0.96	1.53	2.26	3.71	10.88
TKN as N	60	1	N/A				0.2	0.41	0.54	0.73	0.95	1.41	5.08
Total Phosphorus	58	0	N/A				0.02	0.05	0.08	0.11	0.17	0.28	0.53
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	169.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: HAMBY CRK AT SR 2775 OLD EMANUEL CHURCH RD NR THOMASVILLE
Station #: Q5860000 **Hydrologic Unit Code:** 03040103
Latitude: 35.85009 **Longitude:** -80.10637 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-119-7-4

Time period: 01/27/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.2	6.6	7	7.5	8.8	10.3	12
	88	0	<5	0	0		6.2	6.6	7	7.5	8.8	10.3	12
pH (SU)	88	0	<6	0	0		6.6	6.7	6.8	7	7.2	7.3	7.7
	88	0	>9	0	0		6.6	6.7	6.8	7	7.2	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				98	117	137	160	182	195	286
Water Temperature (°C)	88	0	>32	0	0		4.1	6.6	10.5	19.4	23.3	24.3	26
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	2	3.2		2.9	4.3	6	10.5	17.2	40	65
Nutrients (mg/L)													
NH3 as N	62	6	N/A				0.01	0.01	0.05	0.06	0.1	0.16	0.45
NO2 + NO3 as N	62	0	N/A				0.19	0.36	0.47	0.66	1.13	1.95	5.59
TKN as N	62	1	N/A				0.2	0.28	0.37	0.52	0.7	0.95	3.11
Total Phosphorus	60	4	N/A				0.02	0.03	0.04	0.07	0.11	0.21	0.58
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	139.9	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries
 NCDENR, Division of Water Resources
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Location: HAMBY CRK AT I 85 REST AREA NR THOMASVILLE
Station #: Q5901000 **Hydrologic Unit Code:** 03040103
Latitude: 35.84252 **Longitude:** -80.13205 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-119-7-4

Time period: 08/07/2013 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	8	0	<4	0	0		7.1	7.1	7.2	8	8.7	9.8	9.8
	8	0	<5	0	0		7.1	7.1	7.2	8	8.7	9.8	9.8
pH (SU)	8	0	<6	0	0		6.8	6.8	6.9	7	7.3	7.3	7.3
	8	0	>9	0	0		6.8	6.8	6.9	7	7.3	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	8	0	N/A				129	129	130	225	310	320	320
Water Temperature (°C)	8	0	>32	0	0		7.6	7.6	12.1	15.7	20.8	22.5	22.5
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	6	0	>50	0	0		2.8	2.8	4.1	6	15.3	40	40
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.04	0.04	0.04	0.04	0.08	0.14	0.14
NO2 + NO3 as N	6	0	N/A				0.3	0.3	0.3	0.56	0.67	0.75	0.75
TKN as N	6	0	N/A				0.54	0.54	0.64	0.73	0.92	0.95	0.95
Total Phosphorus	6	3	N/A				0.02	0.02	0.02	0.03	0.06	0.07	0.07
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
6	213.1	1	16.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: HAMBY CRK AT SR 2790 NR HOLLY GROVE

Station #: Q5906000

Hydrologic Unit Code: 03040103

Latitude: 35.83240

Longitude: -80.17472

Stream class: C

Agency: NCAMBNT

NC stream index: 12-119-7-4

Time period: 01/08/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	0	0		4.8	6.4	7.2	9.2	12.1	13.6	15.7
	55	0	<5	1	1.8		4.8	6.4	7.2	9.2	12.1	13.6	15.7
pH (SU)	54	0	<6	0	0		7.1	7.2	7.4	7.5	7.6	7.8	8.8
	54	0	>9	0	0		7.1	7.2	7.4	7.5	7.6	7.8	8.8
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				72	136	197	260	330	384	422
Water Temperature (°C)	57	0	>32	0	0		2.1	7.1	10.4	17.1	22	24.4	27
Other													
Hardness (mg/L)	14	0	N/A				38	43	50	60	63	68	68
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.4	12	12
Turbidity (NTU)	59	1	>50	3	5.1		1	1.4	2.4	3.8	7.7	23	85
Nutrients (mg/L)													
NH3 as N	59	29	N/A				0.02	0.02	0.02	0.02	0.04	0.12	1.4
NO2 + NO3 as N	59	2	N/A				0.02	0.3	0.43	0.59	0.78	1.2	1.8
TKN as N	59	0	N/A				0.25	0.4	0.47	0.56	0.68	0.97	1.8
Total Phosphorus	59	0	N/A				0.02	0.03	0.04	0.06	0.09	0.18	0.31

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	208.6	15	25.4	81.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ABBOTTS CRK AT SR 1243 AT LEXINGTON

Station #: Q5930000

Hydrologic Unit Code: 03040103

Latitude: 35.80629

Longitude: -80.23488

Stream class: C

Agency: NCAMBNT

NC stream index: 12-119-(6)

Time period: 01/08/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	53	0	<4	0	0		5.6	6	6.7	8.1	10.7	12.5	13.4
	53	0	<5	0	0		5.6	6	6.7	8.1	10.7	12.5	13.4
pH (SU)	52	0	<6	0	0		6.8	7.1	7.2	7.4	7.5	7.7	8
	52	0	>9	0	0		6.8	7.1	7.2	7.4	7.5	7.7	8
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				28	119	148	167	215	252	321
Water Temperature (°C)	53	0	>32	0	0		1.6	6.4	9.1	17.2	22.3	24.9	28.5
Other													
Hardness (mg/L)	13	0	N/A				39	40	44	52	62	70	72
Total Organic Carbon (mg/L as C)	15	0	N/A				5	5	5	6	7	9	9
TSS (mg/L)	29	5	N/A				6.2	6.2	8.5	16	25	40	85
Turbidity (NTU)	55	0	>50	7	12.7	69	4.2	6	12	18	31	62	270
Nutrients (mg/L)													
NH3 as N	55	8	N/A				0.02	0.02	0.03	0.04	0.05	0.08	0.23
NO2 + NO3 as N	55	0	N/A				0.3	0.41	0.49	0.69	0.9	1.1	2.7
TKN as N	55	0	N/A				0.36	0.45	0.49	0.56	0.63	0.67	1.2
Total Phosphorus	55	0	N/A				0.03	0.06	0.07	0.09	0.11	0.14	0.41

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	230.5	14	25.9	82.2

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ABBOTTS CRK AT SR 1243 AT LEXINGTON

Station #: Q5930000

Hydrologic Unit Code: 03040103

Latitude: 35.80629

Longitude: -80.23488

Stream class: C

Agency: YPDRBA

NC stream index: 12-119-(6)

Time period: 08/07/2013 to 12/10/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	8	0	<4	0	0		6.9	6.9	7	8	8.6	9.9	9.9
	8	0	<5	0	0		6.9	6.9	7	8	8.6	9.9	9.9
pH (SU)	8	0	<6	0	0		6.8	6.8	7	7.1	7.3	7.3	7.3
	8	0	>9	0	0		6.8	6.8	7	7.1	7.3	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	8	0	N/A				136	136	142	150	203	217	217
Water Temperature (°C)	8	0	>32	0	0		8.1	8.1	12.2	16.1	21.3	23.1	23.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	6	0	>50	1	16.7		9.3	9.3	10.6	12	31.5	57	57
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.07	0.07	0.08	0.11	0.16	0.22	0.22
NO2 + NO3 as N	6	0	N/A				0.46	0.46	0.54	1.02	2.23	2.23	2.23
TKN as N	6	0	N/A				0.56	0.56	0.61	0.66	0.8	0.95	0.95
Total Phosphorus	6	2	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.09

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
6	149.3	1	16.7	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ABBOTTS CRK AT I 85 NR LEXINGTON
Station #: Q5940000
Latitude: 35.78730 **Longitude:** -80.23565
Agency: YPDRBA

Hydrologic Unit Code: 03040103
Stream class: C
NC stream index: 12-119-(6)

Time period: 01/27/2009 to 07/30/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		5.1	6.3	6.7	7.5	8.8	10.7	11.7
	80	0	<5	0	0		5.1	6.3	6.7	7.5	8.8	10.7	11.7
pH (SU)	80	0	<6	0	0		6.4	6.8	6.9	7.1	7.2	7.3	7.4
	80	0	>9	0	0		6.4	6.8	6.9	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				97	122	130	152	172	210	276
Water Temperature (°C)	80	0	>32	0	0		3.2	4.6	10	19.6	24.1	24.6	26.6
Other													
TSS (mg/L)	14	0	N/A				5.2	5.8	8.4	16	24.2	34.5	36
Turbidity (NTU)	56	0	>50	4	7.1		3.8	7.4	12	19.5	31.5	45	90
Nutrients (mg/L)													
NH3 as N	56	0	N/A				0.02	0.04	0.07	0.09	0.13	0.16	0.21
NO2 + NO3 as N	56	0	N/A				0.2	0.36	0.45	0.62	1.06	1.86	3.03
TKN as N	56	2	N/A				0.2	0.41	0.56	0.69	0.85	1.2	2.63
Total Phosphorus	54	2	N/A				0.02	0.05	0.07	0.09	0.17	0.62	0.94

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	161.5	8	18.2	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ABBOTTS CRK AT NC 47 NR COTTON GROVE

Station #: Q5970000

Hydrologic Unit Code: 03040103

Latitude: 35.74795

Longitude: -80.24140

Stream class: WS-V B

Agency: NCAMBNT

NC stream index: 12-118.5

Time period: 01/08/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	56	0	<4	0	0		4.1	4.8	6.7	8.2	10.6	12.2	14.9
	56	0	<5	6	10.7	50.6	4.1	4.8	6.7	8.2	10.6	12.2	14.9
pH (SU)	56	0	<6	0	0		6.9	7	7.2	7.3	7.6	7.8	8.8
	56	0	>9	0	0		6.9	7	7.2	7.3	7.6	7.8	8.8
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				91	104	139	161	203	256	281
Water Temperature (°C)	57	0	>32	1	1.8		1.8	5.9	9.5	18.8	24.9	26.8	33.9
Other													
Chlorophyll a (ug/L)	55	0	>40	15	27.3	> 99.9	1	2	4	17	45	90	110
Hardness (mg/L)	14	0	>100	0	0		38	38	43	50	60	63	63
TSS (mg/L)	20	3	N/A				6.2	6.2	9.4	15	17.8	23.6	27
Turbidity (NTU)	59	0	>50	7	11.9	62.2	5.1	11	15	19	27	55	130
Nutrients (mg/L)													
NH3 as N	59	16	N/A				0.02	0.02	0.02	0.04	0.09	0.14	0.35
NO2 + NO3 as N	59	6	>10	0	0		0.02	0.02	0.26	0.41	0.66	0.88	1.6
TKN as N	59	0	N/A				0.44	0.54	0.61	0.74	0.99	1.2	1.7
Total Phosphorus	59	0	N/A				0.05	0.08	0.1	0.13	0.15	0.2	0.29

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
59	92.4	8	13.6

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ABBOTTS CRK AT NC 47 NR COTTON GROVE

Station #: Q5970000

Hydrologic Unit Code: 03040103

Latitude: 35.74795

Longitude: -80.24140

Stream class: WS-V B

Agency: YPDRBA

NC stream index: 12-118.5

Time period: 01/27/2009 to 07/30/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		4.7	5.2	6.2	6.9	8	10.2	10.9
	80	0	<5	3	3.8		4.7	5.2	6.2	6.9	8	10.2	10.9
pH (SU)	80	0	<6	0	0		6.3	6.6	6.8	7.1	7.3	7.4	7.5
	80	0	>9	0	0		6.3	6.6	6.8	7.1	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	72	0	N/A				112	118	129	138	156	270	394
Water Temperature (°C)	80	0	>32	0	0		3	5.4	12.4	21.2	25.9	27.6	30.8
Other													
Chlorophyll a (ug/L)	12	0	>40	5	41.7	99.6	8	9	14	26	50	70	71
Turbidity (NTU)	56	0	>50	5	8.9		2.5	11	16	23.5	29.8	48	120
Nutrients (mg/L)													
NH3 as N	56	1	N/A				0.01	0.04	0.07	0.09	0.15	0.25	0.3
NO2 + NO3 as N	56	3	>10	0	0		0.01	0.08	0.23	0.44	0.62	0.97	1.23
TKN as N	56	1	N/A				0.2	0.53	0.68	0.91	1.09	1.76	2.5
Total Phosphorus	54	0	N/A				0.03	0.05	0.08	0.11	0.14	0.19	0.65

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	120.2	2	4.5	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT SR 1002 AT HIGH ROCK

Station #: Q6120000

Hydrologic Unit Code: 03040103

Latitude: 35.59680

Longitude: -80.23128

Stream class: WS-IV B CA

Agency: NCAMBNT

NC stream index: 12-(124.5)

Time period: 01/08/2009 to 12/04/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	<4	7	12.7	69	2.2	3.8	5.3	7.5	10.1	12.4	16.2
	55	0	<5	12	21.8	99.3	2.2	3.8	5.3	7.5	10.1	12.4	16.2
pH (SU)	55	0	<6	0	0		6.2	6.8	7	7.3	7.7	8.1	9.3
	55	0	>9	1	1.8		6.2	6.8	7	7.3	7.7	8.1	9.3
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				62	74	84	90	101	108	148
Water Temperature (°C)	56	0	>32	0	0		3.8	6.4	9.7	18.3	24.6	28.3	30.1
Other													
Hardness (mg/L)	14	0	>100	0	0		20	21	24	25	27	32	36
TSS (mg/L)	19	7	N/A				6.2	6.2	6.2	6.8	16	20	24
Turbidity (NTU)	58	0	>50	3	5.2		3.8	6	8.1	11	24	45	110
Nutrients (mg/L)													
NH3 as N	58	4	N/A				0.02	0.02	0.06	0.11	0.17	0.24	0.57
NO2 + NO3 as N	58	2	>10	0	0		0.02	0.16	0.38	0.56	0.72	0.86	1.1
TKN as N	58	0	N/A				0.28	0.39	0.48	0.58	0.69	0.76	1.1
Total Phosphorus	58	0	N/A				0.04	0.05	0.05	0.08	0.1	0.13	0.17

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	30	4	6.9	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: YADKIN RIV AT SR 1002 AT HIGH ROCK

Station #: Q6120000

Hydrologic Unit Code: 03040103

Latitude: 35.59680

Longitude: -80.23128

Stream class: WS-IV B CA

Agency: YPDRBA

NC stream index: 12-(124.5)

Time period: 01/21/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	2	2.3		1.7	5.9	6.3	6.8	8.5	10.1	12
	88	0	<5	2	2.3		1.7	5.9	6.3	6.8	8.5	10.1	12
pH (SU)	88	0	<6	0	0		6.5	6.7	6.8	6.9	7	7.2	7.4
	88	0	>9	0	0		6.5	6.7	6.8	6.9	7	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				87	142	160	171	192	206	232
Water Temperature (°C)	88	0	>32	0	0		3.3	8.1	11.4	21	25.2	27.3	29
Other													
Chlorophyll a (ug/L)	12	0	>40	1	8.3		6	7	11	17	23	39	41
TSS (mg/L)	62	4	N/A				2.9	3.1	5	6.4	9.3	11.7	46
Turbidity (NTU)	62	0	>50	1	1.6		2	4.4	6	8.9	12.2	28.6	95
Nutrients (mg/L)													
NH3 as N	62	1	N/A				0.01	0.03	0.05	0.07	0.1	0.18	0.5
NO2 + NO3 as N	62	1	>10	0	0		0.01	0.13	0.27	0.42	0.58	0.69	0.82
TKN as N	62	0	N/A				0.25	0.34	0.44	0.61	0.94	1.09	3.47
Total Phosphorus	59	8	N/A				0.02	0.02	0.03	0.05	0.07	0.12	0.88
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	99	3	6.1	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LICK CRK AT SR 1002 NR HEALING SPRINGS

Station #: Q6140000

Hydrologic Unit Code: 03040103

Latitude: 35.61638

Longitude: -80.17543

Stream class: WS-IV

Agency: YPDRBA

NC stream index: 12-126-(3)

Time period: 01/21/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		4.3	5.6	5.9	6.5	7.2	9.6	11.5
	88	0	<5	2	2.3		4.3	5.6	5.9	6.5	7.2	9.6	11.5
pH (SU)	88	0	<6	0	0		6.2	6.5	6.6	6.7	6.8	6.9	7.2
	88	0	>9	0	0		6.2	6.5	6.6	6.7	6.8	6.9	7.2
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				132	159	173	206	234	271	904
Water Temperature (°C)	88	0	>32	0	0		2.4	7	10.7	20.1	24.2	26.1	27.5

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	2	3.2		2.5	3.5	5.9	9.6	18	30.2	120

Nutrients (mg/L)

NH3 as N	0	0	N/A										
NO2 + NO3 as N	0	0	>10	0									
TKN as N	0	0	N/A										
Total Phosphorus	0	0	N/A										

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	174.6	4	8.2	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: UWHARRIE RIV AT NC 49 NR FARMER
Station #: Q6705000
Latitude: 35.64212 **Longitude:** -79.96502
Agency: YPDRBA

Hydrologic Unit Code: 03040103
Stream class: C
NC stream index: 13-2-(1.5)

Time period: 01/21/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	1	1.1		3.7	6.6	6.7	7.5	9.1	10.3	12.4
	88	0	<5	1	1.1		3.7	6.6	6.7	7.5	9.1	10.3	12.4
pH (SU)	88	0	<6	0	0		6.7	6.9	7.1	7.2	7.3	7.3	7.4
	88	0	>9	0	0		6.7	6.9	7.1	7.2	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				90	108	113	125	134	148	240
Water Temperature (°C)	88	0	>32	0	0		3	7.6	11.7	21	25.2	27.1	28.1

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	1	1.6		2.6	4.6	6.2	8.5	15.2	23	90

Nutrients (mg/L)

NH3 as N	0	0	N/A										
NO2 + NO3 as N	0	0	N/A										
TKN as N	0	0	N/A										
Total Phosphorus	0	0	N/A										

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	66.2	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: UWHARRIE RIV AT NC 109 NR UWHARRIE

Station #: Q6810000

Hydrologic Unit Code: 03040103

Latitude: 35.43121

Longitude: -80.01640

Stream class: WS-IV B

Agency: NCAMBNT

NC stream index: 13-2-(17.5)

Time period: 01/27/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	22	0	<4	0	0		5	6.1	7.3	9.7	11.8	13	14.1
	22	0	<5	0	0		5	6.1	7.3	9.7	11.8	13	14.1
pH (SU)	23	0	<6	1	4.3		5.3	6.5	6.7	7	7.4	7.7	7.9
	23	0	>9	0	0		5.3	6.5	6.7	7	7.4	7.7	7.9
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				64	73	87	94	107	117	122
Water Temperature (°C)	23	0	>32	0	0		3.3	4.4	6.6	11.3	23.1	25.3	27.1
Other													
Hardness (mg/L)	14	0	>100	0	0		27	30	34	36	37	41	43
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	12	15.6	130
Turbidity (NTU)	54	0	>50	2	3.7		2.6	4	5.4	9	16	27.5	180

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	67.4	6	11.1	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LITTLE MOUNTAIN CRK AT SR 1720 NR BADIN

Station #: Q6930000

Hydrologic Unit Code: 03040104

Latitude: 35.38122

Longitude: -80.11285

Stream class: WS-IV

Agency: YPDRBA

NC stream index: 13-5-1-(2)

Time period: 01/21/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		5.8	6.2	6.4	6.9	8.2	10	12.2
	88	0	<5	0	0		5.8	6.2	6.4	6.9	8.2	10	12.2
pH (SU)	88	0	<6	0	0		6.4	6.6	6.8	6.9	7.1	7.2	7.4
	88	0	>9	0	0		6.4	6.6	6.8	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				97	130	148	163	174	192	303
Water Temperature (°C)	88	0	>32	0	0		2.2	6.8	10.6	19.4	23.7	25.3	26.5
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	2	3.3		1	1.6	3.2	5.1	10.3	28.6	110
Nutrients (mg/L)													
NH3 as N	61	2	N/A				0.01	0.02	0.04	0.06	0.08	0.1	0.19
NO2 + NO3 as N	61	0	>10	3	4.9		0.44	0.59	1.11	1.77	3.39	5.67	14.12
TKN as N	61	2	N/A				0.2	0.28	0.36	0.6	0.71	0.99	3.27
Total Phosphorus	58	3	N/A				0.02	0.04	0.07	0.15	0.28	0.46	0.73

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>25	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
48	217.2	7	14.6	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PEE DEE RIV AT BOAT RAMP AT MORROW MOUNTAIN STATE PARK
Station #: Q6960000 **Hydrologic Unit Code:** 03040104
Latitude: 35.37970 **Longitude:** -80.06130 **Stream class:** WS-IV B CA
Agency: YPDRBA **NC stream index:** 13-(1)

Time period: 01/21/2009 to 06/12/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	76	0	<4	0	0		5.5	6.7	7	7.8	9.5	10.5	12.3
	76	0	<5	0	0		5.5	6.7	7	7.8	9.5	10.5	12.3
pH (SU)	76	0	<6	0	0		6.8	6.9	7.1	7.2	7.3	7.3	7.4
	76	0	>9	0	0		6.8	6.9	7.1	7.2	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	76	0	N/A				76	98	108	122	134	152	202
Water Temperature (°C)	76	0	>32	0	0		2.4	6.9	11.3	19.9	24.4	26.1	28.3
Other													
Chlorophyll a (ug/L)	12	0	>40	0	0		3	3	6	12	18	30	33
Turbidity (NTU)	55	0	>50	1	1.8		1.8	2.4	4.3	7.6	12	23.8	65
Nutrients (mg/L)													
NH3 as N	55	2	N/A				0.01	0.04	0.06	0.07	0.09	0.16	0.27
NO2 + NO3 as N	55	0	>10	0	0		0.02	0.13	0.32	0.5	0.64	0.78	6.05
TKN as N	55	1	N/A				0.2	0.27	0.38	0.52	0.79	1.02	3.25
Total Phosphorus	52	6	N/A				0.02	0.02	0.04	0.05	0.08	0.1	0.53

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	68.5	1	2.3	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PEE DEE RIV AT NC 24 NC 27 AND NC 73 NR ALBEMARLE
Station #: Q7030000 **Hydrologic Unit Code:** 03040104
Latitude: 35.30825 **Longitude:** -80.07972 **Stream class:** WS-IV B CA
Agency: YPDRBA **NC stream index:** 13-(1)

Time period: 01/21/2009 to 12/18/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.4	6.6	6.8	7.6	9.2	10.3	12.4
	88	0	<5	0	0		6.4	6.6	6.8	7.6	9.2	10.3	12.4
pH (SU)	88	0	<6	0	0		6.7	6.9	7	7.1	7.2	7.3	8.2
	88	0	>9	0	0		6.7	6.9	7	7.1	7.2	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				75	105	115	124	135	148	178
Water Temperature (°C)	88	0	>32	0	0		2.3	7.6	11.7	20.6	24.9	26.3	30.5

Other													
Chlorophyll a (ug/L)	12	0	>40	0	0		7	7	13	15	25	29	30
TSS (mg/L)	62	4	N/A				2.5	3.3	4.2	6.2	8.4	11	25
Turbidity (NTU)	62	0	>50	1	1.6		3.2	4.3	5.5	8.5	13	16.7	78

Nutrients (mg/L)													
NH3 as N	62	1	N/A				0.01	0.02	0.05	0.06	0.09	0.15	0.61
NO2 + NO3 as N	62	4	>10	0	0		0.01	0.02	0.12	0.28	0.4	0.5	0.7
TKN as N	62	0	N/A				0.2	0.32	0.46	0.66	0.81	1.16	3.51
Total Phosphorus	59	10	N/A				0.02	0.02	0.03	0.05	0.06	0.07	0.49

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	69.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PEE DEE RIV AT NC 731 NR SHANKLE
Station #: Q7150000
Latitude: 35.20052 **Longitude:** -80.06248
Agency: NCAMBNT

Hydrologic Unit Code: 03040104
Stream class: WS-V B
NC stream index: 13-(15.5)

Time period: 01/13/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	7	12.1	63.9	2.1	3.5	5.9	8.3	10.9	12.6	15.7
	58	0	<5	9	15.5	87.8	2.1	3.5	5.9	8.3	10.9	12.6	15.7
pH (SU)	58	0	<6	2	3.4		5.9	6.2	6.7	7.2	7.7	8.3	9.4
	58	0	>9	1	1.7		5.9	6.2	6.7	7.2	7.7	8.3	9.4
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				61	73	78	87	92	97	109
Water Temperature (°C)	59	0	>32	0	0		5.2	8.5	11.3	18.6	25.6	26.9	29.6
Other													
Hardness (mg/L)	14	0	>100	0	0		20	20	22	24	25	26	28
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	6.2	10.7	12
Turbidity (NTU)	60	0	>50	1	1.7		1.4	2	2.6	3.7	7.6	16.9	120
Nutrients (mg/L)													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.14
NO2 + NO3 as N	60	0	>10	0	0		0.12	0.2	0.34	0.48	0.66	0.77	0.88
TKN as N	60	1	N/A				0.2	0.27	0.31	0.36	0.42	0.5	0.58
Total Phosphorus	60	0	N/A				0.02	0.02	0.02	0.03	0.04	0.07	0.27

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	13	1	1.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CLARKS CRK AT SR 1187 NR MOUNT GILEAD

Station #: Q7210000

Hydrologic Unit Code: 03040104

Latitude: 35.20438

Longitude: -80.05752

Stream class: C

Agency: YPDRBA

NC stream index: 13-16

Time period: 01/21/2009 to 07/24/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		4.7	6.3	6.5	7.2	9	10.5	13
	80	0	<5	1	1.2		4.7	6.3	6.5	7.2	9	10.5	13
pH (SU)	80	0	<6	0	0		6.6	6.7	6.8	7	7.1	7.3	7.4
	80	0	>9	0	0		6.6	6.7	6.8	7	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				71	107	125	138	161	171	261
Water Temperature (°C)	80	0	>32	0	0		1.5	6.8	10.7	19.8	24.2	25.3	27.4
Other													
Turbidity (NTU)	55	0	>50	3	5.5		1.9	3.6	4.9	10	16	39.6	95

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
43	111.7	2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 2420 NR DAVIDSON
Station #: Q7330000
Latitude: 35.47490 **Longitude:** -80.77948
Agency: NCAMBNT

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/08/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		6.6	6.9	7.3	8.6	10.4	11.5	14.6
	58	0	<5	0	0		6.6	6.9	7.3	8.6	10.4	11.5	14.6
pH (SU)	57	0	<6	0	0		6.5	6.7	7.1	7.5	7.7	7.8	8.6
	57	0	>9	0	0		6.5	6.7	7.1	7.5	7.7	7.8	8.6
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				126	210	272	322	429	464	568
Water Temperature (°C)	59	0	>32	0	0		2.6	7.9	10.7	18	23.1	25	27.5
Other													
Hardness (mg/L)	14	0	N/A				56	56	59	68	78	91	97
TSS (mg/L)	20	2	N/A				6.2	6.3	12.5	19	40.8	51.1	830
Turbidity (NTU)	59	0	>50	7	11.9	62.2	3.7	5.9	9	14	27	65	700
Nutrients (mg/L)													
NH3 as N	59	27	N/A				0.02	0.02	0.02	0.02	0.03	0.09	0.56
NO2 + NO3 as N	59	0	N/A				0.63	1.7	3.3	7.2	12	14	20
TKN as N	59	2	N/A				0.2	0.45	0.56	0.69	0.82	1.1	1.6
Total Phosphorus	58	0	N/A				0.23	0.31	0.55	0.87	1.3	1.71	2

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	400.7	26	44.8	> 99.9

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 2420 NR DAVIDSON
Station #: Q7330000
Latitude: 35.47490 **Longitude:** -80.77948
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	87	0	<4	0	0		5.9	6.4	7	7.6	9.1	10.9	12.4
	87	0	<5	0	0		5.9	6.4	7	7.6	9.1	10.9	12.4
pH (SU)	87	0	<6	0	0		6.5	6.8	6.9	7	7.2	7.4	7.5
	87	0	>9	0	0		6.5	6.8	6.9	7	7.2	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	87	0	N/A				102	147	170	284	374	411	463
Water Temperature (°C)	87	0	>32	0	0		1	6.2	10.5	19.2	23.5	24.7	26.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	9	14.8	84.7	2.2	5	6.5	13	27.5	88	730
Nutrients (mg/L)													
NH3 as N	61	7	N/A				0.01	0.01	0.03	0.07	0.1	0.2	0.73
NO2 + NO3 as N	61	0	N/A				0.03	0.11	0.3	3.43	8.04	12.71	19.68
TKN as N	61	4	N/A				0.2	0.33	0.46	0.72	0.94	1.17	3.11
Total Phosphorus	58	3	N/A				0.02	0.03	0.06	0.5	0.88	1.43	1.74

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	169.2	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT US 29 NR HARRISBURG
Station #: Q7450000
Latitude: 35.35600 **Longitude:** -80.67506
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	88	0	<4	0	0		6.3	6.7	7	7.6	9	10.8	12.7
	88	0	<5	0	0		6.3	6.7	7	7.6	9	10.8	12.7
pH (SU)	88	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.3	7.5
	88	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	88	0	N/A				70	118	128	150	168	179	297
Water Temperature (°C)	88	0	>32	0	0		1.3	6.5	11	19.8	23.9	25.1	26.5

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	62	0	>50	9	14.5	83.6	2.5	4	6.2	10.4	26	114	290

Nutrients (mg/L)			
NH3 as N	0	0	N/A
NO2 + NO3 as N	0	0	N/A
TKN as N	0	0	N/A
Total Phosphorus	0	0	N/A

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
50	119.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MALLARD CRK AT PAVILLION RD NR HARRISBURG
Station #: Q7550000 **Hydrologic Unit Code:** 03040105
Latitude: 35.33232 **Longitude:** -80.71573 **Stream class:** C
Agency: YPDRBA **NC stream index:** 13-17-5

Time period: 01/28/2009 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		5.8	6.4	6.7	7.3	9.1	10.7	12.5
	80	0	<5	0	0		5.8	6.4	6.7	7.3	9.1	10.7	12.5
pH (SU)	80	0	<6	0	0		6.6	6.8	6.9	7	7.2	7.3	7.8
	80	0	>9	0	0		6.6	6.8	6.9	7	7.2	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				81	132	154	174	194	213	293
Water Temperature (°C)	80	0	>32	0	0		1.6	6.7	10.9	20	23.9	25.4	27
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	56	0	>50	8	14.3	80.6	1.8	3.5	4.6	7.9	16.5	77.5	120
Nutrients (mg/L)													
NH3 as N	56	5	N/A				0.01	0.02	0.05	0.07	0.13	0.21	1.13
NO2 + NO3 as N	56	3	N/A				0.01	0.06	0.11	0.24	0.43	0.7	1.27
TKN as N	56	7	N/A				0.2	0.2	0.29	0.42	0.8	1.27	3.65
Total Phosphorus	53	7	N/A				0.02	0.02	0.03	0.05	0.09	0.13	0.58

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	194.4	5	11.4	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MALLARD CRK AT SR 1300 NR HARRISBURG

Station #: Q7570000

Hydrologic Unit Code: 03040105

Latitude: 35.33378

Longitude: -80.66817

Stream class: C

Agency: YPDRBA

NC stream index: 13-17-5

Time period: 01/28/2009 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	80	0	<4	0	0		6	6.5	6.9	7.4	9.2	10.7	12.7
	80	0	<5	0	0		6	6.5	6.9	7.4	9.2	10.7	12.7
pH (SU)	80	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.2	7.4
	80	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	80	0	N/A				102	132	154	167	184	207	473
Water Temperature (°C)	80	0	>32	0	0		1.7	6.6	10.9	19.7	23.9	25.6	27
Other													
Turbidity (NTU)	56	0	>50	7	12.5	67.3	2.6	3.6	6	9.2	26.8	60	230
Nutrients (mg/L)													
NH3 as N	56	3	N/A				0.01	0.03	0.05	0.09	0.14	0.19	1.56
NO2 + NO3 as N	56	0	N/A				0.11	0.23	0.37	1.68	3.59	7.2	14.52
TKN as N	56	3	N/A				0.2	0.26	0.38	0.68	1.07	1.44	3.48
Total Phosphorus	53	0	N/A				0.03	0.05	0.11	0.29	0.5	0.96	1.87

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	157.6	4	9.1	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1304 NR HARRISBURG

Station #: Q7600000

Hydrologic Unit Code: 03040105

Latitude: 35.33445

Longitude: -80.64435

Stream class: C

Agency: YPDRBA

NC stream index: 13-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		6.2	6.5	6.8	7.5	9	10.6	12.3
	86	0	<5	0	0		6.2	6.5	6.8	7.5	9	10.6	12.3
pH (SU)	86	0	<6	0	0		6.7	6.9	7	7.1	7.2	7.3	7.5
	86	0	>9	0	0		6.7	6.9	7	7.1	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				112	141	152	164	180	194	377
Water Temperature (°C)	86	0	>32	0	0		1.9	6.7	11.3	19.8	24	25.8	27.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	14	23	99.8	2.2	4.7	6.9	11	47.5	122	270
Nutrients (mg/L)													
NH3 as N	61	5	N/A				0.01	0.02	0.04	0.07	0.11	0.21	0.4
NO2 + NO3 as N	61	0	N/A				0.45	1.62	3	4.73	6.98	8.52	11.52
TKN as N	61	1	N/A				0.2	0.52	0.67	0.82	1.04	1.31	3.07
Total Phosphorus	58	0	N/A				0.2	0.38	0.53	0.74	1.18	1.38	2.07
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	134.3	3	6.1	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CODDLE CRK AT SR 1304 ROBERTA RD NR ROBERTA MILL
Station #: Q7700000 **Hydrologic Unit Code:** 03040105
Latitude: 35.35919 **Longitude:** -80.63469 **Stream class:** C
Agency: YPDRBA **NC stream index:** 13-17-6-(5.5)

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		6.4	6.8	7.2	7.8	9.4	10.8	12.8
	86	0	<5	0	0		6.4	6.8	7.2	7.8	9.4	10.8	12.8
pH (SU)	86	0	<6	0	0		6.7	6.9	7.1	7.2	7.3	7.4	7.5
	86	0	>9	0	0		6.7	6.9	7.1	7.2	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				86	112	123	136	154	171	194
Water Temperature (°C)	86	0	>32	0	0		1.1	6	10.5	19.1	23.4	25.1	26.2

Other													
TSS (mg/L)	6	3	N/A				2.9	2.9	2.9	6.3	52	166	166
Turbidity (NTU)	61	0	>50	8	13.1	73.6	1.6	3.4	5.1	10	28.5	59	200

Nutrients (mg/L)													
NH3 as N	6	2	N/A				0.02	0.02	0.02	0.05	0.08	0.08	0.08
NO2 + NO3 as N	6	0	N/A				0.1	0.1	0.1	0.23	0.42	0.47	0.47
TKN as N	6	0	N/A				0.27	0.27	0.27	0.51	0.99	1.28	1.28
Total Phosphorus	6	2	N/A				0.02	0.02	0.02	0.04	0.19	0.4	0.4

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	109.8	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1132 NR HARRISBURG

Station #: Q7780000

Hydrologic Unit Code: 03040105

Latitude: 35.32443

Longitude: -80.56033

Stream class: C

Agency: YPDRBA

NC stream index: 13-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		6.3	6.6	7	7.5	8.9	10.5	12.4
	86	0	<5	0	0		6.3	6.6	7	7.5	8.9	10.5	12.4
pH (SU)	86	0	<6	0	0		6.5	6.9	6.9	7.1	7.2	7.3	7.7
	86	0	>9	0	0		6.5	6.9	6.9	7.1	7.2	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				92	116	129	138	156	172	306
Water Temperature (°C)	86	0	>32	0	0		1.9	6.8	11.2	20	24.2	26	28.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	9	14.8	84.7	1.7	3.8	5.2	10	28.5	138	460
Nutrients (mg/L)													
NH3 as N	61	5	N/A				0.01	0.02	0.03	0.07	0.11	0.16	0.47
NO2 + NO3 as N	61	0	N/A				0.43	0.79	1.55	2.43	3.55	6.88	11.52
TKN as N	61	6	N/A				0.2	0.2	0.45	0.7	0.92	1.22	3.53
Total Phosphorus	58	0	N/A				0.05	0.13	0.17	0.27	0.54	0.88	1.51
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	98.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: IRISH BUFFALO CRK AT SR 1132 NR FAGGARTS

Station #: Q8090000

Hydrologic Unit Code: 03040105

Latitude: 35.34730

Longitude: -80.54769

Stream class: C

Agency: NCAMBNT

NC stream index: 13-17-9-(2)

Time period: 01/07/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.6	7.8	8.2	9.7	11.5	13.5	15.2
	60	0	<5	0	0		6.6	7.8	8.2	9.7	11.5	13.5	15.2
pH (SU)	59	0	<6	0	0		6.4	6.9	7.2	7.9	8.2	8.5	9.1
	59	0	>9	1	1.7		6.4	6.9	7.2	7.9	8.2	8.5	9.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				87	115	162	181	196	206	230
Water Temperature (°C)	60	0	>32	0	0		1.1	6.8	10.6	17.2	23.5	25.3	27.1
Other													
Hardness (mg/L)	14	0	N/A				43	45	54	60	64	72	74
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	9.8	12	283
Turbidity (NTU)	60	0	>50	7	11.7	60.5	1.3	1.6	2.1	3.5	7.8	87.5	310

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	219.2	14	23.3	69.4

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: COLD WATER CRK AT SR 1132 MIAMI CHURCH RD NR CONCORD
Station #: Q8200000 **Hydrologic Unit Code:** 03040105
Latitude: 35.36242 **Longitude:** -80.53033 **Stream class:** C
Agency: YPDRBA **NC stream index:** 13-17-9-4-(1.5)

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	76	0	<4	0	0		5.2	5.8	6.3	6.8	8.2	9.9	12
	76	0	<5	0	0		5.2	5.8	6.3	6.8	8.2	9.9	12
pH (SU)	76	0	<6	0	0		6.4	6.5	6.5	6.7	6.9	7.1	7.3
	76	0	>9	0	0		6.4	6.5	6.5	6.7	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	76	0	N/A				90	139	169	191	209	233	323
Water Temperature (°C)	76	0	>32	0	0		1.6	6.1	10.1	18.6	23.3	24.9	26.6

Other													
TSS (mg/L)	6	2	N/A				2.9	2.9	2.9	4.6	55.2	194	194
Turbidity (NTU)	55	0	>50	8	14.5	81.9	2.1	4.3	5.7	8.8	21	77	160

Nutrients (mg/L)			
NH3 as N	0	0	N/A
NO2 + NO3 as N	0	0	N/A
TKN as N	0	0	N/A
Total Phosphorus	0	0	N/A

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)			
# results:	Geomean:	# > 400:	% > 400: %Conf:
43	262.1	4	9.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT US 601 NR CONCORD
Station #: Q8210000
Latitude: 35.32445 **Longitude:** -80.51537
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		6.4	6.6	7	7.6	9	10.6	12.7
	86	0	<5	0	0		6.4	6.6	7	7.6	9	10.6	12.7
pH (SU)	86	0	<6	0	0		6.8	7	7	7.2	7.2	7.3	7.4
	86	0	>9	0	0		6.8	7	7	7.2	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				90	114	121	129	141	161	370
Water Temperature (°C)	86	0	>32	0	0		2	7.1	11.5	20.6	24.6	26.2	28.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	12	19.7	98.3	1.7	3.6	6.9	13	40.5	166	590
Nutrients (mg/L)													
NH3 as N	61	8	N/A				0.01	0.02	0.03	0.06	0.11	0.16	0.49
NO2 + NO3 as N	61	0	N/A				0.59	1.08	1.76	3.31	5.73	6.46	9.56
TKN as N	61	1	N/A				0.2	0.39	0.53	0.66	0.98	1.41	3.46
Total Phosphorus	58	0	N/A				0.11	0.19	0.3	0.41	0.69	0.91	1.28
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	88.3	2	4.1	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1006 NR CONCORD
Station #: Q8220000
Latitude: 35.31397 **Longitude:** -80.47864
Agency: NCAMBNT

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/07/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6	6.8	7.9	9.1	10.8	12.3	13.6
	60	0	<5	0	0		6	6.8	7.9	9.1	10.8	12.3	13.6
pH (SU)	59	0	<6	0	0		6.1	6.6	7.1	7.4	7.7	8	8.5
	59	0	>9	0	0		6.1	6.6	7.1	7.4	7.7	8	8.5
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				97	136	208	259	328	374	440
Water Temperature (°C)	60	0	>32	0	0		2.6	8	12.2	19	25.5	27.6	30.1
Other													
Hardness (mg/L)	14	0	N/A				53	54	62	66	72	80	81
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.2	15	76.7	214
Turbidity (NTU)	60	0	>50	11	18.3	96.6	1.7	2.8	4.1	10.5	28.8	99	280
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.02	0.02	0.02	0.05	0.11	0.18	0.49
NO2 + NO3 as N	60	0	N/A				0.42	1.31	2.73	4.75	6.95	9.13	13
TKN as N	60	0	N/A				0.4	0.59	0.69	0.8	0.99	1.39	2.4
Total Phosphorus	60	0	N/A				0.25	0.35	0.48	0.73	1.1	1.39	1.6
Metals (ug/L)													
Arsenic, dissolved (As)	28	28	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	1	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	28	4	>7	0	0		2	2	2	3	3	4	4
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	0	N/A				35	42	44	47	73	87	89
Nickel, dissolved (Ni)	28	23	>88	0	0		2	2	2	2	3	10	10
Zinc, dissolved (Zn)	26	13	>50	0	0		10	10	10	10	12	16	17

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	215	18	30	95.7

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1006 NR CONCORD
Station #: Q8220000
Latitude: 35.31397 **Longitude:** -80.47864
Agency: NCS PST

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 03/12/2012 to 03/15/2012

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Other												
Hardness (mg/L)	4	0	N/A				70	70	70	72	74	74
Metals (ug/L)												
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Copper, dissolved (Cu)	4	4	>7	0	0		2	2	2	2	2	2
Copper, total (Cu)	4	0	>7	0	0		2	2	2	2	2	2
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Manganese, dissolved (Mn)	4	0	N/A				34	34	34	36	40	40
Manganese, total (Mn)	4	0	N/A				48	48	49	52	56	56
Nickel, dissolved (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Nickel, total (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Zinc, dissolved (Zn)	4	4	>50	0	0		10	10	10	10	10	10
Zinc, total (Zn)	4	3	>50	0	0		10	10	10	10	10	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CLEAR CRK AT SR 1118 BEN BLACK RD NR BRIEF
Station #: Q8341000 **Hydrologic Unit Code:** 03040105
Latitude: 35.21628 **Longitude:** -80.54555 **Stream class:** C
Agency: YPDRBA **NC stream index:** 13-17-17

Time period: 01/28/2009 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<4	1	1.3		2.5	6.4	6.8	7.4	9	10.2	15.2
	78	0	<5	1	1.3		2.5	6.4	6.8	7.4	9	10.2	15.2
pH (SU)	78	0	<6	0	0		6.6	6.8	6.9	7.1	7.2	7.3	8.3
	78	0	>9	0	0		6.6	6.8	6.9	7.1	7.2	7.3	8.3
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				112	124	131	145	155	170	211
Water Temperature (°C)	78	0	>32	0	0		0.2	6.4	10.9	19.4	24.3	25.7	27.1
Other													
Turbidity (NTU)	55	0	>50	6	10.9	52.3	2.7	5	7.6	14	26	76	380

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
43	117.2	1	2.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CLEAR CRK AT US 601 NR BRIEF

Station #: Q8342000

Hydrologic Unit Code: 03040105

Latitude: 35.19465

Longitude: -80.52928

Stream class: C

Agency: YPDRBA

NC stream index: 13-17-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		5.2	6.3	7	7.8	9.4	10.9	14.5
	86	0	<5	0	0		5.2	6.3	7	7.8	9.4	10.9	14.5
pH (SU)	86	0	<6	0	0		6.3	6.7	7	7.2	7.3	7.4	7.8
	86	0	>9	0	0		6.3	6.7	7	7.2	7.3	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				89	92	95	107	117	168	247
Water Temperature (°C)	86	0	>32	0	0		0.1	6.5	11.2	19.1	24	25.1	26.6

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	10	16.7	92.7	3.6	4	7.6	14	36.8	108	290

Nutrients (mg/L)

NH3 as N	0	0	N/A										
NO2 + NO3 as N	0	0	N/A										
TKN as N	0	0	N/A										
Total Phosphorus	0	0	N/A										

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
48	86.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1114 NR MIDLAND
Station #: Q8355000
Latitude: 35.22117 **Longitude:** -80.48712
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		6.3	6.6	6.8	7.7	9.2	10.6	13.4
	86	0	<5	0	0		6.3	6.6	6.8	7.7	9.2	10.6	13.4
pH (SU)	86	0	<6	1	1.2		5.8	6.9	7.1	7.2	7.3	7.3	8.3
	86	0	>9	0	0		5.8	6.9	7.1	7.2	7.3	7.3	8.3
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				95	111	120	129	149	164	429
Water Temperature (°C)	86	0	>32	0	0		1.8	6.9	12	20.5	25.1	25.9	29.8
Other													
TSS (mg/L)	61	7	N/A				2.8	3	4.8	13	30	142.6	677
Turbidity (NTU)	61	0	>50	13	21.3	99.3	1.4	4.8	7.8	15	45	184	450
Nutrients (mg/L)													
NH3 as N	61	5	N/A				0.01	0.02	0.04	0.08	0.11	0.19	1.21
NO2 + NO3 as N	61	0	N/A				0.78	1.45	2.23	4.24	7.16	9.48	13.84
TKN as N	61	0	N/A				0.28	0.61	0.75	0.88	1.13	1.88	3.83
Total Phosphorus	58	0	N/A				0.14	0.26	0.42	0.62	0.93	1.3	1.56

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	83.1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GOOSE CRK IN HUNLEY CREEK SUBDIVISION
Station #: Q8359500 **Hydrologic Unit Code:** 03040105
Latitude: 35.13855 **Longitude:** -80.63363 **Stream class:** C
Agency: YPDRBA **NC stream index:** 13-17-18

Time period: 01/28/2009 to 07/23/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<4	0	0		6	6.4	6.8	7.4	8.9	10.3	12.8
	78	0	<5	0	0		6	6.4	6.8	7.4	8.9	10.3	12.8
pH (SU)	78	0	<6	0	0		6.6	6.9	6.9	7	7.2	7.3	7.4
	78	0	>9	0	0		6.6	6.9	6.9	7	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				114	126	134	152	168	184	225
Water Temperature (°C)	78	0	>32	0	0		0.4	6.3	12.4	19.9	24.4	25.9	26.9
Other													
TSS (mg/L)	55	14	N/A				1	2.7	2.9	4.1	7.5	18.4	48
Turbidity (NTU)	55	0	>50	3	5.5		2.5	4.2	5.7	8.9	21	33.4	110
Nutrients (mg/L)													
NH3 as N	55	6	N/A				0.01	0.01	0.03	0.06	0.1	0.12	0.2
NO2 + NO3 as N	55	0	N/A				0.07	0.25	0.33	0.47	0.62	2.03	9.72
TKN as N	55	2	N/A				0.2	0.32	0.43	0.57	0.79	1.08	3.7
Total Phosphorus	52	2	N/A				0.02	0.04	0.07	0.08	0.13	0.56	1.35

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	104.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GOOSE CRK AT SR 1524 NR MINT HILL
Station #: Q8360000
Latitude: 35.13090 **Longitude:** -80.63105
Agency: NCAMBNT

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17-18

Time period: 01/07/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5.9	7	7.5	8.6	10.9	12.9	14.9
	60	0	<5	0	0		5.9	7	7.5	8.6	10.9	12.9	14.9
pH (SU)	58	0	<6	0	0		6.1	6.5	7.2	7.6	7.9	8.3	9.4
	58	0	>9	2	3.4		6.1	6.5	7.2	7.6	7.9	8.3	9.4
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				80	100	116	134	150	158	183
Water Temperature (°C)	60	0	>32	0	0		3.8	7.4	12.1	18.1	22.9	25	27.1
Other													
Hardness (mg/L)	14	0	N/A				36	36	37	40	49	50	50
TSS (mg/L)	60	43	N/A				6.2	6.2	6.2	6.2	9.4	15.7	26
Turbidity (NTU)	60	0	>50	5	8.3		1.1	1.9	3.3	5.8	13.8	48.9	100
Nutrients (mg/L)													
NH3 as N	60	38	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.1
NO2 + NO3 as N	60	1	N/A				0.02	0.19	0.4	0.55	0.8	1.29	1.9
TKN as N	60	3	N/A				0.2	0.23	0.26	0.37	0.49	0.61	1
Total Phosphorus	60	0	N/A				0.02	0.05	0.08	0.12	0.16	0.21	0.26

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	371.8	22	37.3	99.8

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GOOSE CRK AT SR 1524 NR MINT HILL
Station #: Q8360000
Latitude: 35.13090 **Longitude:** -80.63105
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17-18

Time period: 01/28/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		5.7	6.2	6.5	7.1	8.4	10.1	12.7
	86	0	<5	0	0		5.7	6.2	6.5	7.1	8.4	10.1	12.7
pH (SU)	86	0	<6	0	0		6.5	6.8	6.8	6.9	7.1	7.2	7.4
	86	0	>9	0	0		6.5	6.8	6.8	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				101	144	158	172	191	207	266
Water Temperature (°C)	86	0	>32	0	0		0.7	7.1	12.4	19.8	24.4	26	27.4
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	3	4.9		2.1	3.4	4.9	7.6	19	39.2	110
Nutrients (mg/L)													
NH3 as N	0	0	N/A										
NO2 + NO3 as N	0	0	N/A										
TKN as N	0	0	N/A										
Total Phosphorus	0	0	N/A										
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
49	176.4	5	10.2

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: GOOSE CRK AT SR 1547 NR BRIEF
Station #: Q8374000
Latitude: 35.17587 **Longitude:** -80.51129
Agency: NCAMBNT

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17-18

Time period: 01/07/2009 to 12/02/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	1	1.7		3.9	6.5	7.2	8.4	11.6	14.3	16.7
	60	0	<5	1	1.7		3.9	6.5	7.2	8.4	11.6	14.3	16.7
pH (SU)	58	0	<6	0	0		6.1	6.6	7.2	7.6	7.8	8.4	9.9
	58	0	>9	1	1.7		6.1	6.6	7.2	7.6	7.8	8.4	9.9
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				81	105	140	172	210	240	312
Water Temperature (°C)	60	0	>32	0	0		1.1	7.3	10.9	17.9	22.7	25.3	27.8
Other													
Hardness (mg/L)	14	0	N/A				27	32	43	46	51	55	55
TSS (mg/L)	60	45	N/A				6.2	6.2	6.2	6.2	10	23.8	170
Turbidity (NTU)	60	4	>50	3	5		1	1.6	2.6	5.8	11	28.6	150
Nutrients (mg/L)													
NH3 as N	60	33	N/A				0.02	0.02	0.02	0.02	0.02	0.05	4.2
NO2 + NO3 as N	60	3	N/A				0.02	0.16	0.35	0.97	1.68	2.4	11
TKN as N	60	0	N/A				0.37	0.45	0.54	0.59	0.75	1.19	5.8
Total Phosphorus	60	0	N/A				0.05	0.1	0.16	0.2	0.29	0.39	0.45

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	193.6	11	18.6	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1606 NR MONROE
Station #: Q8385000
Latitude: 35.16987 **Longitude:** -80.47277
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		6.3	6.5	6.8	7.5	9.4	10.5	14.5
	86	0	<5	0	0		6.3	6.5	6.8	7.5	9.4	10.5	14.5
pH (SU)	86	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.3	8.9
	86	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.3	8.9
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				104	118	126	134	153	180	462
Water Temperature (°C)	86	0	>32	0	0		1.7	7.5	12.3	20.8	25.2	26.2	30.3
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	13	21.3	99.3	2.4	3	5.3	9.4	42.5	170	390
Nutrients (mg/L)													
NH3 as N	61	8	N/A				0.01	0.01	0.03	0.09	0.11	0.23	0.68
NO2 + NO3 as N	61	0	N/A				0.86	1.26	2.06	3.95	6.62	8.59	13.84
TKN as N	61	1	N/A				0.2	0.57	0.7	0.9	1.24	1.75	2.84
Total Phosphorus	58	0	N/A				0.08	0.23	0.36	0.54	0.8	1.05	1.54

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	88.6	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: N FORK CROOKED CRK AT SR 1520 NR MONROE
Station #: Q8386000 **Hydrologic Unit Code:** 03040105
Latitude: 35.10785 **Longitude:** -80.61538 **Stream class:** C
Agency: YPDRBA **NC stream index:** 13-17-20-1

Time period: 01/28/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	1	1.2		3.8	4.9	5.3	5.7	6.6	8.5	10.3
	84	0	<5	12	14.3	86.8	3.8	4.9	5.3	5.7	6.6	8.5	10.3
pH (SU)	84	0	<6	0	0		6.1	6.3	6.4	6.5	6.7	6.8	7.3
	84	0	>9	0	0		6.1	6.3	6.4	6.5	6.7	6.8	7.3
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				120	206	238	281	322	370	417
Water Temperature (°C)	84	0	>32	0	0		1.7	6.6	12	19.4	24.3	26.5	28.2

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	9	15	85.8	3.6	5.9	8.5	14	23	59.8	130

Nutrients (mg/L)			
NH3 as N	0	0	N/A
NO2 + NO3 as N	0	0	N/A
TKN as N	0	0	N/A
Total Phosphorus	0	0	N/A

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
48	379.3	13	27.1	85.2

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: N FORK CROOKED CRK AT SR 1514 NR MONROE
Station #: Q8386200 **Hydrologic Unit Code:** 03040105
Latitude: 35.10235 **Longitude:** -80.58428 **Stream class:** C
Agency: YPDRBA **NC stream index:** 13-17-20-1
Time period: 01/28/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.6	5.3	5.6	6.1	7	8.8	10.6
	84	0	<5	3	3.6		4.6	5.3	5.6	6.1	7	8.8	10.6
pH (SU)	84	0	<6	0	0		6.3	6.4	6.5	6.6	6.8	6.9	7.3
	84	0	>9	0	0		6.3	6.4	6.5	6.6	6.8	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				164	192	219	254	302	322	408
Water Temperature (°C)	84	0	>32	0	0		1.7	6.6	12	20	24.4	26.7	28.4

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	60	0	>50	5	8.3		3.5	6	7.6	14	28.8	45	110

Nutrients (mg/L)			
NH3 as N	0	0	N/A
NO2 + NO3 as N	0	0	N/A
TKN as N	0	0	N/A
Total Phosphorus	0	0	N/A

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
48	240.9	7	14.6	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CROOKED CRK AT NC 218 NR MONROE
Station #: Q8388000
Latitude: 35.13302 **Longitude:** -80.48958
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17-20

Time period: 01/28/2009 to 12/16/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		5.4	5.9	6.3	6.9	8.1	10	14.4
	86	0	<5	0	0		5.4	5.9	6.3	6.9	8.1	10	14.4
pH (SU)	86	0	<6	0	0		6.5	6.6	6.7	6.7	7	7.2	7.5
	86	0	>9	0	0		6.5	6.6	6.7	6.7	7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				107	139	151	171	200	250	365
Water Temperature (°C)	86	0	>32	0	0		0.5	7	12	20.1	24.2	26	27.3

Other													
TSS (mg/L)	6	2	N/A				2.9	2.9	2.9	8.2	17.5	25	25
Turbidity (NTU)	61	0	>50	9	14.8	84.7	2.5	4.6	6	13	29	70	190

Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.02	0.02	0.03	0.05	0.07	0.07	0.07
NO2 + NO3 as N	6	0	N/A				1.07	1.07	1.83	5.38	15.2	15.2	15.2
TKN as N	6	0	N/A				0.95	0.95	0.96	1	1.05	1.17	1.17
Total Phosphorus	6	0	N/A				0.35	0.35	0.37	0.55	2.14	2.14	2.14

Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
49	178.1	4	8.2									

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: CROOKED CRK AT SR 1601 NR MONROE
Station #: Q8388900
Latitude: 35.13808 **Longitude:** -80.50538
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17-20

Time period: 01/28/2009 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	78	0	<4	0	0		4.3	5.3	6	6.6	8.1	9.4	14.3
	78	0	<5	5	6.4		4.3	5.3	6	6.6	8.1	9.4	14.3
pH (SU)	78	0	<6	0	0		6.2	6.4	6.5	6.7	7	7.3	7.4
	78	0	>9	0	0		6.2	6.4	6.5	6.7	7	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				107	148	164	178	250	321	437
Water Temperature (°C)	78	0	>32	0	0		0.4	6.5	11.4	19.9	24.2	26.2	27
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	55	0	>50	6	10.9	52.3	2.1	3.4	5	9.5	21	57	150
Nutrients (mg/L)													
NH3 as N	0	0	N/A										
NO2 + NO3 as N	0	0	N/A										
TKN as N	0	0	N/A										
Total Phosphorus	0	0	N/A										

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	232.2	8	18.6	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT NC 205 NR STANFIELD
Station #: Q8480000
Latitude: 35.16900 **Longitude:** -80.34600
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 08/07/2013 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	8	0	<4	0	0		6.8	6.8	7	7.8	8.7	9.9	9.9
	8	0	<5	0	0		6.8	6.8	7	7.8	8.7	9.9	9.9
pH (SU)	8	0	<6	0	0		6.8	6.8	7	7.1	7.2	7.2	7.2
	8	0	>9	0	0		6.8	6.8	7	7.1	7.2	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	8	0	N/A				136	136	137	140	152	158	158
Water Temperature (°C)	8	0	>32	0	0		7.9	7.9	12	20.9	24.5	26.1	26.1
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	6	0	>50	1	16.7		2.7	2.7	2.7	23	45.5	80	80
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.06	0.06	0.06	0.06	0.08	0.09	0.09
NO2 + NO3 as N	6	0	N/A				0.73	0.73	1.92	4.08	6.78	6.78	6.78
TKN as N	6	0	N/A				0.64	0.64	0.68	0.76	1.08	1.61	1.61
Total Phosphorus	6	0	N/A				0.07	0.07	0.26	0.57	0.87	0.87	0.87

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
6	109.1	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LONG CRK AT SR 1968 NR OAKBORO
Station #: Q8715000
Latitude: 35.26667 **Longitude:** -80.25693
Agency: YPDRBA

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17-31

Time period: 01/28/2009 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	65	0	<4	0	0		5.7	6.5	6.8	7.4	9.1	10.6	13.2
	65	0	<5	0	0		5.7	6.5	6.8	7.4	9.1	10.6	13.2
pH (SU)	65	0	<6	0	0		6.4	6.7	6.9	7.1	7.2	7.3	8.2
	65	0	>9	0	0		6.4	6.7	6.9	7.1	7.2	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				106	134	146	165	180	225	397
Water Temperature (°C)	65	0	>32	0	0		1.4	6.3	9.8	18.6	24.1	25.7	28.7
Other													
Turbidity (NTU)	47	0	>50	5	10.6	48.7	2.1	3.2	4.8	6.7	12	61	250

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
35	115.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LONG CRK AT SR 1917 NR ROCKY RIVER SPRINGS
Station #: Q8720000 **Hydrologic Unit Code:** 03040105
Latitude: 35.22392 **Longitude:** -80.25857 **Stream class:** C
Agency: NCAMBNT **NC stream index:** 13-17-31
Time period: 01/13/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		6	6.7	7.7	9.2	11.2	13.6	15.5
	58	0	<5	0	0		6	6.7	7.7	9.2	11.2	13.6	15.5
pH (SU)	58	0	<6	0	0		6	6.7	7	7.5	7.8	8.4	8.8
	58	0	>9	0	0		6	6.7	7	7.5	7.8	8.4	8.8
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				80	104	142	167	227	306	398
Water Temperature (°C)	59	0	>32	0	0		1.8	6.3	10.1	18	23.7	27.6	29.5
Other													
Hardness (mg/L)	14	0	N/A				34	37	42	46	50	59	60
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	6.7	12	20
Turbidity (NTU)	60	0	>50	2	3.3		1.1	1.7	2.1	2.9	7.1	22	90
Nutrients (mg/L)													
NH3 as N	2	1	N/A				0.02	0.02	0.02	0.02	0.03	0.03	0.03
NO2 + NO3 as N	2	0	N/A				2.2	2.2	2.2	4.4	6.6	6.6	6.6
TKN as N	2	0	N/A				0.35	0.35	0.35	0.65	0.95	0.95	0.95
Total Phosphorus	2	0	N/A				0.06	0.06	0.06	0.12	0.18	0.18	0.18

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	131.1	10	16.7	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: RICHARDSON CRK AT SR 1751 WALKUP AVE AT MONROE

Station #: Q8800000

Hydrologic Unit Code: 03040105

Latitude: 34.98970

Longitude: -80.50965

Stream class: C

Agency: YPDRBA

NC stream index: 13-17-36-(5)

Time period: 01/21/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	2	2.3		1.7	6.3	6.4	7	8.7	10.2	13.4
	86	0	<5	2	2.3		1.7	6.3	6.4	7	8.7	10.2	13.4
pH (SU)	86	0	<6	0	0		6.4	6.7	6.8	6.9	7	7.1	7.3
	86	0	>9	0	0		6.4	6.7	6.8	6.9	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				104	141	156	172	186	205	502
Water Temperature (°C)	86	0	>32	0	0		1.1	6.2	10.6	19.2	23.8	25	26.5
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	1	1.6		2.9	4.2	6.3	11	18	30.8	210
Nutrients (mg/L)													
NH3 as N	61	1	N/A				0.02	0.03	0.05	0.08	0.12	0.17	0.84
NO2 + NO3 as N	61	0	N/A				0.23	1.15	4.39	7.43	14.16	18.49	20.2
TKN as N	61	0	N/A				0.39	0.75	1.03	1.22	1.58	2.24	4.9
Total Phosphorus	58	0	N/A				0.08	0.25	0.47	0.91	1.42	2.04	2.62

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	168.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: RICHARDSON CRK AT SR 1006 NR MONROE

Station #: Q8820000

Hydrologic Unit Code: 03040105

Latitude: 35.03220

Longitude: -80.47163

Stream class: C

Agency: YPDRBA

NC stream index: 13-17-36-(5)

Time period: 01/21/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		4.9	6.4	6.6	7.2	8.6	10.3	13.3
	86	0	<5	1	1.2		4.9	6.4	6.6	7.2	8.6	10.3	13.3
pH (SU)	86	0	<6	0	0		6.5	6.8	6.8	6.9	7.1	7.2	7.3
	86	0	>9	0	0		6.5	6.8	6.8	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				112	143	153	165	177	215	704
Water Temperature (°C)	86	0	>32	0	0		1.2	6.2	10.8	19.1	23.9	24.9	26.8

Other

TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	2	3.3		1.8	4	4.9	8.7	18.5	37	290

Nutrients (mg/L)

NH3 as N	61	1	N/A				0.01	0.03	0.05	0.09	0.15	0.27	0.5
NO2 + NO3 as N	61	0	N/A				1.17	4.24	9.74	15.7	27.36	35.3	38.5
TKN as N	61	0	N/A				0.28	1.09	1.26	1.48	1.79	2.2	2.85
Total Phosphorus	58	0	N/A				0.3	0.55	1.08	1.82	2.78	4.16	4.84

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	150.5	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: RICHARDSON CRK AT SR 1649 NR FAIRFIELD

Station #: Q8917000

Hydrologic Unit Code: 03040105

Latitude: 35.07111

Longitude: -80.40662

Stream class: C

Agency: NCAMBNT

NC stream index: 13-17-36-(5)

Time period: 01/13/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		6	6.5	7.4	8.7	11.3	13.6	15.6
	58	0	<5	0	0		6	6.5	7.4	8.7	11.3	13.6	15.6
pH (SU)	58	0	<6	0	0		6.3	6.7	7.1	7.5	7.6	8.3	8.9
	58	0	>9	0	0		6.3	6.7	7.1	7.5	7.6	8.3	8.9
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				115	165	233	350	682	877	1010
Water Temperature (°C)	59	0	>32	0	0		3	7.3	10.9	18.2	24.5	27.9	29.5
Other													
Hardness (mg/L)	14	0	N/A				18	32	52	76	115	156	163
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	10.5	12.9	44
Turbidity (NTU)	60	1	>50	2	3.3		1	1.1	1.8	3.6	8.8	31.7	260
Nutrients (mg/L)													
NH3 as N	59	23	N/A				0.02	0.02	0.02	0.02	0.04	0.1	0.38
NO2 + NO3 as N	59	0	N/A				1.8	3	5.2	7.9	18	27	30
TKN as N	59	4	N/A				0.2	0.64	0.86	1.1	1.2	1.8	2.5
Total Phosphorus	59	0	N/A				0.32	0.48	0.69	1.1	1.8	2.9	4

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	129.9	11	18.6	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LANES CRK AT SR 1005 LANDSFORD RD NR MARSHVILLE

Station #: Q9021300

Hydrologic Unit Code: 03040105

Latitude: 34.92316

Longitude: -80.34210

Stream class: WS-V

Agency: YPDRBA

NC stream index: 13-17-40-(1)

Time period: 01/21/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	2	2.4		0.4	5.2	5.7	6.3	7.1	8.9	12
	85	0	<5	7	8.2		0.4	5.2	5.7	6.3	7.1	8.9	12
pH (SU)	85	0	<6	0	0		6.2	6.4	6.4	6.6	6.8	6.9	7.4
	85	0	>9	0	0		6.2	6.4	6.4	6.6	6.8	6.9	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				68	146	164	201	215	241	412
Water Temperature (°C)	85	0	>32	0	0		1	5.5	10.5	18.4	23.3	24.4	26.2

Other

TSS (mg/L)	59	6	N/A				2	2.9	3.3	4.5	8	17	470
Turbidity (NTU)	59	0	>50	2	3.4		4.8	5.5	6.7	9.8	17	34	360

Nutrients (mg/L)

NH3 as N	59	2	N/A				0.01	0.03	0.08	0.14	0.25	0.37	4.42
NO2 + NO3 as N	59	6	>10	1	1.7		0.01	0.02	0.06	0.91	1.95	3.18	11.92
TKN as N	59	1	N/A				0.2	0.77	1.16	1.55	2.15	2.67	8.02
Total Phosphorus	56	0	N/A				0.03	0.14	0.24	0.45	0.71	1.13	2.22

Metals (ug/L)

Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	181.4	6	12.2	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1935 NR NORWOOD
Station #: Q9120000
Latitude: 35.15688 **Longitude:** -80.16583
Agency: NCAMBNT

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 01/13/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	1	1.7		3.8	6.4	7.2	8.9	11.2	13.4	15.3
	58	0	<5	1	1.7		3.8	6.4	7.2	8.9	11.2	13.4	15.3
pH (SU)	58	0	<6	0	0		6	6.6	7	7.5	8.2	8.7	9.6
	58	0	>9	3	5.2		6	6.6	7	7.5	8.2	8.7	9.6
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				83	117	162	191	271	397	454
Water Temperature (°C)	59	0	>32	0	0		2.2	6.8	10.2	20	25.1	29.3	31.8

Other													
Hardness (mg/L)	14	0	N/A				32	36	50	60	66	82	84
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.2	17.8	97.1	287
Turbidity (NTU)	60	0	>50	15	25	99.9	1.1	2.7	4.1	13	56.2	149	210

Nutrients (mg/L)													
NH3 as N	60	31	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.18
NO2 + NO3 as N	60	0	N/A				0.82	1.41	1.9	2.45	3.9	6.53	8.9
TKN as N	60	0	N/A				0.43	0.5	0.6	0.74	0.92	1.2	2.7
Total Phosphorus	60	0	N/A				0.16	0.23	0.28	0.39	0.67	0.78	1

Metals (ug/L)													
Arsenic, dissolved (As)	28	28	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	28	28	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	28	28	>2	0	0		0	0	1	1	1	1	1
Chromium, dissolved (Cr)	28	28	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	28	0	>7	0	0		3	3	4	4	5	5	6
Lead, dissolved (Pb)	28	28	>25	0	0		2	2	2	2	2	10	10
Manganese, dissolved (Mn)	20	4	N/A				10	10	10	12	16	18	30
Nickel, dissolved (Ni)	28	26	>88	0	0		2	2	2	2	2	10	10
Zinc, dissolved (Zn)	26	26	>50	0	0		10	10	10	10	10	10	10

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	142.5	13	22	60.1

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: ROCKY RIV AT SR 1935 NR NORWOOD
Station #: Q9120000
Latitude: 35.15688 **Longitude:** -80.16583
Agency: NCS PST

Hydrologic Unit Code: 03040105
Stream class: C
NC stream index: 13-17

Time period: 03/12/2012 to 03/15/2012

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
Other												
Hardness (mg/L)	4	0	N/A				55	55	55	56	57	57
Metals (ug/L)												
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2
Arsenic, total (As)	4	4	>10	0	0		2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Beryllium, total (Be)	4	4	>6.5	0	0		5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Cadmium, total (Cd)	4	4	>2	0	0		1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Chromium, total (Cr)	4	4	>50	0	0		10	10	10	10	10	10
Copper, dissolved (Cu)	4	0	>7	0	0		3	3	3	3	3	3
Copper, total (Cu)	4	0	>7	0	0		4	4	4	4	4	4
Lead, dissolved (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Lead, total (Pb)	4	4	>25	0	0		2	2	2	2	2	2
Manganese, dissolved (Mn)	4	4	N/A				10	10	10	10	10	10
Manganese, total (Mn)	4	0	N/A				16	16	17	20	22	23
Nickel, dissolved (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Nickel, total (Ni)	4	4	>88	0	0		2	2	2	2	2	2
Zinc, dissolved (Zn)	4	4	>50	0	0		10	10	10	10	10	10
Zinc, total (Zn)	4	4	>50	0	0		10	10	10	10	10	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: BROWN CRK AT SR 1627 NR PINKSTON
Station #: Q9155000
Latitude: 35.06372 **Longitude:** -80.05283
Agency: NCAMBNT

Hydrologic Unit Code: 03040104
Stream class: C
NC stream index: 13-20

Time period: 01/14/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	9	42.9	> 99.9	0.4	1.3	2.2	5.7	10.6	12.8	14
	21	0	<5	10	47.6	> 99.9	0.4	1.3	2.2	5.7	10.6	12.8	14
pH (SU)	20	0	<6	0	0		6	6.3	6.4	6.6	6.9	7.4	7.5
	20	0	>9	0	0		6	6.3	6.4	6.6	6.9	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				60	82	100	136	159	187	202
Water Temperature (°C)	22	0	>32	0	0		0.2	2.8	7.8	12.8	21.4	24.7	25
Other													
Hardness (mg/L)	13	0	N/A				31	31	38	44	51	76	78
TSS (mg/L)	19	12	N/A				6.2	6.2	6.2	6.4	12	20	53
Turbidity (NTU)	55	0	>50	1	1.8		3.7	5.1	6.4	12	18	23.8	65

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	58.7	2	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PEE DEE RIV AT NC 109 NR MANGUM
Station #: Q9160000
Latitude: 35.08600 **Longitude:** -79.99883
Agency: NCAMBNT

Hydrologic Unit Code: 03040104
Stream class: WS-V B
NC stream index: 13-(15.5)

Time period: 01/14/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	17	0	<4	0	0		4.3	4.7	6.6	8.6	11.3	11.8	12.4
	17	0	<5	2	11.8	48.1	4.3	4.7	6.6	8.6	11.3	11.8	12.4
pH (SU)	15	0	<6	0	0		6.4	6.5	6.6	6.7	6.9	7.5	7.5
	15	0	>9	0	0		6.4	6.5	6.6	6.7	6.9	7.5	7.5
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				85	87	102	121	128	141	143
Water Temperature (°C)	17	0	>32	0	0		4.4	4.6	7.8	15.2	23.4	26.6	28.7
Other													
Hardness (mg/L)	11	0	>100	0	0		24	24	26	29	33	37	37
TSS (mg/L)	16	1	N/A				6.8	7.6	9.3	13	22.2	193.3	530
Turbidity (NTU)	48	0	>50	2	4.2		4.7	7.3	9.3	14	23	33.3	130
Nutrients (mg/L)													
NH3 as N	48	18	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.08
NO2 + NO3 as N	48	0	>10	0	0		0.19	0.36	0.57	0.73	0.86	1.31	1.4
TKN as N	48	0	N/A				0.28	0.33	0.38	0.5	0.55	0.69	1.4
Total Phosphorus	48	0	N/A				0.04	0.06	0.08	0.1	0.14	0.17	0.45

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
47	84.3	3	6.4	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LITTLE RIV AT SR 1340 NR STAR

Station #: Q9200000

Hydrologic Unit Code: 03040104

Latitude: 35.38722

Longitude: -79.83152

Stream class: C HQW

Agency: NCAMBNT

NC stream index: 13-25-(11.5)

Time period: 01/27/2009 to 12/11/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	22	0	<4	0	0		5	6.4	7.5	10.7	12.4	13.1	13.3
	22	0	<5	0	0		5	6.4	7.5	10.7	12.4	13.1	13.3
pH (SU)	23	0	<6	1	4.3		5.2	6.2	6.5	7	7.3	7.6	7.9
	23	0	>9	0	0		5.2	6.2	6.5	7	7.3	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				45	52	64	73	78	90	103
Water Temperature (°C)	23	0	>32	0	0		3.1	4.3	5.9	10.5	21.6	24.8	25.1
Other													
Hardness (mg/L)	14	0	N/A				19	20	22	23	25	27	28
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	11	13.8	34
Turbidity (NTU)	54	0	>50	3	5.6		1.7	3.5	5.4	8.6	16	37.5	500
Nutrients (mg/L)													
NH3 as N	54	33	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.04
NO2 + NO3 as N	54	12	N/A				0.02	0.02	0.04	0.18	0.3	0.36	0.48
TKN as N	54	0	N/A				0.2	0.25	0.36	0.47	0.55	0.77	2.2
Total Phosphorus	54	0	N/A				0.02	0.04	0.05	0.09	0.12	0.15	0.74

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	115.8	8	14.5	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: LITTLE RIV AT SR 1148 NR ELLERBE
Station #: Q9320000
Latitude: 35.10633 **Longitude:** -79.89895
Agency: YPDRBA

Hydrologic Unit Code: 03040104
Stream class: WS-IV
NC stream index: 13-25-(37.5)

Time period: 01/21/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		4.2	5.5	5.9	6.6	8	9.8	12.9
	86	0	<5	3	3.5		4.2	5.5	5.9	6.6	8	9.8	12.9
pH (SU)	86	0	<6	0	0		6.4	6.5	6.6	6.8	7.1	7.2	7.4
	86	0	>9	0	0		6.4	6.5	6.6	6.8	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				59	80	91	105	162	195	311
Water Temperature (°C)	86	0	>32	0	0		1.1	5.7	10.2	19.2	23.9	25.6	27.6
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	61	0	>50	1	1.6		3.1	4.7	7.8	13	23	38.8	160
Nutrients (mg/L)													
NH3 as N	6	0	N/A				0.04	0.04	0.05	0.06	0.06	0.07	0.07
NO2 + NO3 as N	6	0	>10	0	0		0.18	0.18	0.18	0.3	0.47	0.54	0.54
TKN as N	6	0	N/A				0.41	0.41	0.52	0.61	1.27	2.18	2.18
Total Phosphorus	6	2	N/A				0.02	0.02	0.02	0.04	0.07	0.09	0.09
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	146.6	2	4.1	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: TOMS BRANCH AT SR 1310 NR ELLERBE
Station #: Q9340000
Latitude: 35.08783 **Longitude:** -79.78942
Agency: YPDRBA

Hydrologic Unit Code: 03040104
Stream class: C
NC stream index: 13-28-2-4

Time period: 01/21/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.8	6.3	6.5	7.1	8.7	10.2	13.6
	85	0	<5	0	0		5.8	6.3	6.5	7.1	8.7	10.2	13.6
pH (SU)	85	0	<6	0	0		6.5	6.7	6.8	7	7.1	7.3	7.4
	85	0	>9	0	0		6.5	6.7	6.8	7	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				89	113	122	135	158	171	328
Water Temperature (°C)	85	0	>32	0	0		0.8	5.5	9.8	18.3	23.6	24.8	27

Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	57	0	>50	3	5.3		3.9	5.3	7.2	12	19.5	34.2	180

Nutrients (mg/L)			
NH3 as N	0	0	N/A
NO2 + NO3 as N	0	0	N/A
TKN as N	0	0	N/A
Total Phosphorus	0	0	N/A

Metals (ug/L)				
Cadmium, total (Cd)	0	0	>2	0
Chromium, total (Cr)	0	0	>50	0
Copper, total (Cu)	0	0	>7	0
Lead, total (Pb)	0	0	>25	0
Nickel, total (Ni)	0	0	>88	0

Fecal Coliform Screening(#/100mL)				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
45	103.7	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MOUNTAIN CRK AT SR 1150 NR ELLERBE

Station #: Q9345000

Hydrologic Unit Code: 03040104

Latitude: 35.08913

Longitude: -79.83514

Stream class: WS-IV

Agency: YPDRBA

NC stream index: 13-28-(0.5)

Time period: 08/08/2013 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	8	0	<4	0	0		7.2	7.2	7.4	8.5	9.3	10.4	10.4
	8	0	<5	0	0		7.2	7.2	7.4	8.5	9.3	10.4	10.4
pH (SU)	8	0	<6	0	0		6.8	6.8	7	7.1	7.3	7.3	7.3
	8	0	>9	0	0		6.8	6.8	7	7.1	7.3	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	8	0	N/A				67	67	70	108	133	135	135
Water Temperature (°C)	8	0	>32	0	0		6.3	6.3	10.1	18.7	22.2	23.8	23.8
Other													
TSS (mg/L)	0	0	N/A										
Turbidity (NTU)	6	0	>50	1	16.7		6.9	6.9	6.9	12.5	59.5	160	160
Nutrients (mg/L)													
NH3 as N	6	1	N/A				0.02	0.02	0.04	0.05	0.06	0.06	0.06
NO2 + NO3 as N	6	0	>10	0	0		0.84	0.84	0.85	1.11	1.36	1.52	1.52
TKN as N	6	0	N/A				0.52	0.52	0.53	0.8	1.1	1.76	1.76
Total Phosphorus	6	2	N/A				0.02	0.02	0.02	0.03	0.07	0.11	0.11
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>25	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
6	75.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PEE DEE RIV AT US 74 NR ROCKINGHAM

Station #: Q9400000

Hydrologic Unit Code: 03040201

Latitude: 34.94567

Longitude: -79.86910

Stream class: C

Agency: NCAMBNT

NC stream index: 13-(34)

Time period: 01/14/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	0	0		4.1	4.9	6.9	9.5	10.8	12.5	12.7
	21	0	<5	2	9.5		4.1	4.9	6.9	9.5	10.8	12.5	12.7
pH (SU)	20	0	<6	0	0		6.1	6.3	6.4	6.7	7.2	7.5	7.6
	20	0	>9	0	0		6.1	6.3	6.4	6.7	7.2	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				84	85	91	97	107	112	120
Water Temperature (°C)	22	0	>32	0	0		3.8	5.4	9	14.3	20.6	27.4	28.5
Other													
Hardness (mg/L)	14	0	N/A				23	24	25	27	28	30	30
TSS (mg/L)	20	4	N/A				6.2	6.2	6.3	8.2	12	16.5	18
Turbidity (NTU)	56	0	>50	0	0		3.7	5.7	6.8	8.9	15.8	24	50

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
56	28.5	1	1.8	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: PEE DEE RIV AT US 74 NR ROCKINGHAM

Station #: Q9400000

Hydrologic Unit Code: 03040201

Latitude: 34.94567

Longitude: -79.86910

Stream class: C

Agency: YPDRBA

NC stream index: 13-(34)

Time period: 01/21/2009 to 12/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	86	0	<4	0	0		4.3	6.3	6.7	7.5	9.1	10.6	13.2
	86	0	<5	1	1.2		4.3	6.3	6.7	7.5	9.1	10.6	13.2
pH (SU)	86	0	<6	0	0		6.5	6.8	7	7.1	7.3	7.4	7.5
	86	0	>9	0	0		6.5	6.8	7	7.1	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	86	0	N/A				79	92	100	108	127	152	221
Water Temperature (°C)	86	0	>32	0	0		2	6.3	11.8	20.6	25.1	26.5	28.7
Other													
TSS (mg/L)	61	1	N/A				2.7	4.8	6.5	8.4	10.5	16.8	32
Turbidity (NTU)	61	0	>50	1	1.6		5.2	6.5	8.4	12	21	25.8	65
Nutrients (mg/L)													
NH3 as N	61	1	N/A				0.01	0.04	0.05	0.09	0.12	0.17	0.22
NO2 + NO3 as N	61	0	N/A				0.14	0.28	0.43	0.61	0.76	0.91	1.07
TKN as N	61	3	N/A				0.2	0.3	0.5	0.63	0.8	0.98	3.29
Total Phosphorus	58	6	N/A				0.02	0.02	0.05	0.07	0.1	0.16	0.53
Metals (ug/L)													
Cadmium, total (Cd)	0	0	>2	0									
Chromium, total (Cr)	0	0	>50	0									
Copper, total (Cu)	0	0	>7	0									
Lead, total (Pb)	0	0	>25	0									
Nickel, total (Ni)	0	0	>88	0									

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	65.9	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: HITCHCOCK CRK AT SR 1109 AT CORDOVA

Station #: Q9660000

Hydrologic Unit Code: 03040201

Latitude: 34.91837

Longitude: -79.83003

Stream class: C

Agency: NCAMBNT

NC stream index: 13-39-(10)

Time period: 01/14/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	21	0	<4	1	4.8		0.2	4.9	7.7	10.7	11.8	13.5	16.7
	21	0	<5	2	9.5		0.2	4.9	7.7	10.7	11.8	13.5	16.7
pH (SU)	20	0	<6	1	5		5.9	6.1	6.4	6.5	7	7.5	7.9
	20	0	>9	0	0		5.9	6.1	6.4	6.5	7	7.5	7.9
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				32	43	44	45	51	62	87
Water Temperature (°C)	22	0	>32	0	0		3.1	4.7	9.7	12.9	21.9	26.5	26.9
Other													
Hardness (mg/L)	14	0	N/A				10	10	12	13	18	24	25
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.5	17.8	31	52
Turbidity (NTU)	57	0	>50	0	0		2.5	3.5	4.6	6	9.3	22.4	50
Nutrients (mg/L)													
NH3 as N	57	15	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.08
NO2 + NO3 as N	57	0	N/A				0.07	0.1	0.12	0.18	0.34	0.4	0.46
TKN as N	57	0	N/A				0.3	0.33	0.36	0.4	0.49	0.66	0.96
Total Phosphorus	57	1	N/A				0.02	0.02	0.02	0.03	0.04	0.07	0.16

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
57	82.5	6	10.5	

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: JONES CRK AT NC 145 NR PEE DEE
Station #: Q9777000
Latitude: 34.90432 **Longitude:** -79.93047
Agency: NCAMBNT

Hydrologic Unit Code: 03040201
Stream class: C
NC stream index: 13-42

Time period: 01/14/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	20	0	<4	0	0		5.1	6	7.4	10.4	11.5	13.1	14.5
	20	0	<5	0	0		5.1	6	7.4	10.4	11.5	13.1	14.5
pH (SU)	18	0	<6	1	5.6		5.7	6.1	6.4	6.7	7.1	7.4	7.5
	18	0	>9	0	0		5.7	6.1	6.4	6.7	7.1	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				35	37	61	75	87	92	93
Water Temperature (°C)	21	0	>32	0	0		0.7	2.9	8.4	11.2	22	24.8	25.2
Other													
Hardness (mg/L)	14	0	N/A				20	20	22	24	26	29	29
TSS (mg/L)	18	11	N/A				6.2	6.2	6.2	7	12	26.2	136
Turbidity (NTU)	52	0	>50	3	5.8		2.4	3.2	5.2	7.6	10.8	18.7	160

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
53	159.6	7	13.2	

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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

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

Location: MARKS CRK AT SR 1812 NR HAMLET
Station #: Q9940000
Latitude: 34.86257 **Longitude:** -79.71915
Agency: NCAMBNT

Hydrologic Unit Code: 03040201
Stream class: C
NC stream index: 13-45-(2)

Time period: 01/07/2009 to 12/09/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	23	0	<4	5	21.7	92.7	1	1.8	4.2	6.7	8.9	10.5	11
	23	0	<5	8	34.8	99.9	1	1.8	4.2	6.7	8.9	10.5	11
pH (SU)	23	0	<6	11	47.8	>99.9	4.8	5.2	5.6	6	6.4	7	7.6
	23	0	>9	0	0		4.8	5.2	5.6	6	6.4	7	7.6
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				39	39	40	45	47	60	107
Water Temperature (°C)	24	0	>32	0	0		2.1	7	9.9	15.3	22.5	26.1	27.1
Other													
Hardness (mg/L)	14	0	N/A				8	8	10	11	14	21	24
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	12	12	110
Turbidity (NTU)	58	2	>50	0	0		1	1.2	1.6	2.6	5	7.7	13

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
57	100.8	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 greater than 10% (20% for Fecal Coliform)
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence