

# North Carolina Ambient Monitoring System & Monitoring Coalition Program



Summary Report

2010 – 2014



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North Carolina Department of Environmental Quality, Division of Water Resources, Water Sciences  
Section

<http://deg.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page>

**For more information on the Ambient Monitoring System and Monitoring Coalition Program:**

<http://deg.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/ecosystems-branch/ambient-monitoring-system>

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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.

During the time period covered by this report, surface water monitoring was conducted at 344 AMS stations. Stations were located in all seventeen major river basins of the state, and were 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://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/ecosystems-branch/ambient-monitoring-system>.

### 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) monitored from the headwaters to the confluence of the Haw and Deep Rivers.
  - The Middle Cape Fear Basin Association (MCFBA) monitored from the confluence of the Haw and Deep Rivers to Lock and Dam 1.
  - The Lower Cape Fear River Program (LCFRP) monitored from Lock and Dam 1 to Southport.
- Neuse River basin: The Lower Neuse Basin Association (LNBA) monitored 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) monitored throughout the basin.
- Yadkin-Pee Dee River basin: The Yadkin/Pee Dee River Basin Association (YPDRBA) monitored from the headwaters to the South Carolina border.

Combined, the monitoring coalitions sampled 301 stations for a variety of physical, chemical and bacteriological parameters. Details of the Monitoring Coalition Program design and implementation can be found through <http://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/ecosystems-branch/monitoring-coalition-program>.

## Objective

This report summarizes results returned through the AMS Monitoring System and the Monitoring Coalition Program from January 1, 2010 through December 31, 2014.

**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://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/intensive-survey-branch>.

Similarly, DWR laboratory staff use EPA-approved methods for the analysis of waters collected through the AMS program. Laboratory methods and detection limits can be accessed through the DWR laboratory web page at <https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/microbiology-inorganics-branch/methods-pqls-qa>.

## 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 as a link from <https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/ecosystems-branch/ambient-monitoring-system>.

## 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 <https://www.epa.gov/waterdata/storage-and-retrieval-and-water-quality-exchange>.

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 were excluded from analyses for evaluation purposes. A list of qualifier remark codes and descriptions is available as a link from <https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/microbiology-inorganics-branch/methods-pqls-qa>.

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 <https://deq.nc.gov/about/divisions/water-resources/planning/modeling-assessment/water-quality-data-assessment>.

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

*The web links below and in the report narrative were accessible as of February 13, 2017.*

(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](http://portal.ncdenr.org/c/document_library/get_file?uuid=516f1b7b-fbb6-419f-83c8-0c981b2e1f78&groupId=38364).

Novotny, V. 2003. Water Quality, 2<sup>nd</sup> 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**

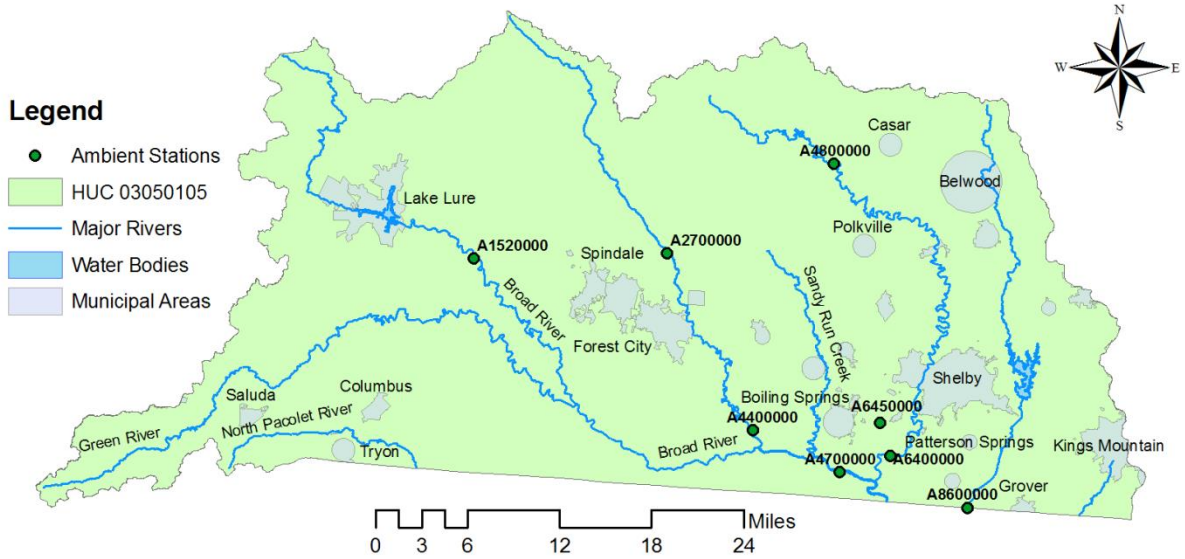


Figure BRD-1. Broad River basin ambient monitoring station locations.

Table BRD-1. AMS monitoring stations in the Broad River basin, 2010-2014.

Station	Location	Latitude	Longitude	Stream Class
<b>HUC 03050105</b>				
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:** 02/03/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<4	0	0		7.8	7.8	9	10.5	12.2	12.8	12.9
pH (SU)	18	0	<5	0	0		7.8	7.8	9	10.5	12.2	12.8	12.9
	18	0	<6	0	0		6.2	6.8	7.2	7.3	7.5	7.6	7.6
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.2	6.8	7.2	7.3	7.5	7.6	7.6
Water Temperature (°C)	18	0	N/A				33	33	36	38	39	41	41
	18	0	>29	0	0		5.6	6.1	7.8	13	21.7	25.8	26.7
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	10	10	12	13	15	17
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.4	10.2	44.9	237
Turbidity (NTU)	53	0	>50	4	7.5		1.3	1.9	2.9	4.8	11.5	36.4	150
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	86.9	8	15.4										

**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:** 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:** 02/03/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<4	0	0		7.6	7.6	8.6	10.5	11.3	12.3	12.5
pH (SU)	18	0	<5	0	0		7.6	7.6	8.6	10.5	11.3	12.3	12.5
	18	0	<6	0	0		6.4	6.7	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.4	6.7	7	7.1	7.2	7.3	7.4
Water Temperature (°C)	18	0	N/A				51	53	54	59	62	65	66
	18	0	>29	0	0		5.7	5.7	8.6	11.8	19.2	23.4	23.7
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		20	20	21	22	22	25	40
TSS (mg/L)	20	4	N/A				6.2	6.2	6.4	8.3	19.5	29.4	482
Turbidity (NTU)	54	0	>50	3	5.6		2.1	4.4	6.4	9	15.2	35	330
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	196.5	11	20.8	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:** 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:** 02/03/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<4	0	0		7.4	7.6	8.6	11	12	12.8	12.8
pH (SU)	18	0	<5	0	0		7.4	7.6	8.6	11	12	12.8	12.8
	18	0	<6	0	0		6.5	7	7.1	7.3	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.5	7	7.1	7.3	7.3	7.4	7.5
Water Temperature (°C)	18	0	N/A				56	57	58	64	69	76	81
	18	0	>29	0	0		5.7	6.4	8.3	12.6	21.3	25.2	25.7
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		19	19	20	21	22	24	40
TSS (mg/L)	20	2	N/A				6.2	6.3	10.2	15	19.8	27.5	405
Turbidity (NTU)	54	0	>50	4	7.4		1.5	6.4	12	17	24	45	360
<b>Nutrients (mg/L)</b>													
NH3 as N	51	20	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.07
NO2 + NO3 as N	51	0	>10	0	0		0.14	0.24	0.32	0.39	0.46	0.51	0.62
TKN as N	51	11	N/A				0.2	0.2	0.2	0.23	0.27	0.35	1.8
Total Phosphorus	50	0	N/A				0.02	0.04	0.04	0.06	0.08	0.12	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	146.5	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:** 01/25/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		7.6	8	8.4	9.7	12	13.7	14.6
pH (SU)	58	0	<6	1	1.7		5.9	7.2	7.4	7.6	7.9	8.2	8.6
Spec. conductance (umhos/cm at 25°C)	58	0	>9	0	0		5.9	7.2	7.4	7.6	7.9	8.2	8.6
Water Temperature (°C)	58	0	>29	2	3.4		3.2	7.5	10.7	17.4	24.2	27.4	31.4
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		11	13	15	17	19	22	23
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.4	16	75.7	400
Turbidity (NTU)	59	0	>50	4	6.8		2.3	3.8	5.4	8.9	19	45	390
<b>Nutrients (mg/L)</b>													
NH3 as N	58	52	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		0.17	0.2	0.22	0.26	0.3	0.36	0.38
TKN as N	58	26	N/A				0.2	0.2	0.2	0.2	0.21	0.32	0.9
Total Phosphorus	58	2	N/A				0.02	0.02	0.02	0.03	0.04	0.1	0.54
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	67	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:** 01/25/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<6	0	0		7.4	8.1	9	10.3	11.7	12.6	15
pH (SU)	57	0	<6	2	3.5		5.4	6.7	7.3	7.5	7.8	7.9	8.5
	57	0	>9	0	0		5.4	6.7	7.3	7.5	7.8	7.9	8.5
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				23	34	35	38	41	43	44
Water Temperature (°C)	59	0	>20	17	28.8	> 99.9	0.2	6.2	9.4	14.8	20.7	24.4	27.4
	59	0	>29	0	0		0.2	6.2	9.4	14.8	20.7	24.4	27.4
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		11	11	11	12	13	14	15
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	9.2	12	180
Turbidity (NTU)	60	1	>10	7	11.7	60.5	1	1.4	1.9	2.6	4.5	11	90
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	48.6	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:** 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:** 01/25/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.4	7.1	7.8	9.4	11.4	12.9	14.7
pH (SU)	56	0	<5	0	0		6.4	7.1	7.8	9.4	11.4	12.9	14.7
	58	0	<6	1	1.7		5.8	6.7	7.1	7.2	7.4	7.5	8
	58	0	>9	0	0		5.8	6.7	7.1	7.2	7.4	7.5	8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				31	47	60	68	74	82	93
Water Temperature (°C)	58	0	>29	1	1.7		1	6.5	9.9	17	23.4	26.8	30.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				17	17	18	19	20	23	34
TSS (mg/L)	20	4	N/A				6.2	6.2	6.5	12	14.8	101.7	850
Turbidity (NTU)	59	0	>50	6	10.2	45.3	2.9	4.4	7.3	13	20	70	800
<b>Nutrients (mg/L)</b>													
NH3 as N	58	3	N/A				0.02	0.02	0.04	0.07	0.15	0.18	0.42
NO2 + NO3 as N	58	0	N/A				0.33	0.46	0.51	0.61	0.68	0.73	1
TKN as N	58	5	N/A				0.2	0.21	0.26	0.35	0.44	0.66	1.4
Total Phosphorus	58	0	N/A				0.02	0.03	0.04	0.06	0.12	0.24	1.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	181.6	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:** 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:** 01/25/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		5.4	6.6	7.3	8.6	10.3	11.2	13.4
pH (SU)	58	0	<6	1	1.7		5.4	6.6	7.3	8.6	10.3	11.2	13.4
Spec. conductance (umhos/cm at 25°C)	58	0	>9	0	0		5.5	6.4	6.9	7	7.3	7.5	7.8
Water Temperature (°C)	58	0	N/A				8	74	79	82	85	88	104
			>29	0	0		2.2	8.2	10.2	16.4	21.8	23.8	28.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				20	23	23	24	25	27	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	2.6	4.5	9.9	19	270
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	329.1	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:** 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:** 01/25/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.3	7.3	7.6	9.4	11.4	12.2	13.7
pH (SU)	56	0	<5	0	0		6.3	7.3	7.6	9.4	11.4	12.2	13.7
	58	0	<6	1	1.7		5.8	7	7.1	7.3	7.4	7.7	8
	58	0	>9	0	0		5.8	7	7.1	7.3	7.4	7.7	8
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				52	71	89	116	150	194	227
Water Temperature (°C)	58	0	>29	0	0		2.6	7.6	10.3	17.2	24.5	26.1	28.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				21	22	23	24	25	29	29
TSS (mg/L)	20	6	N/A				6.2	6.5	11.2	13.5	25	66.5	280
Turbidity (NTU)	59	0	>50	4	6.8		2.4	4.8	6.6	11	20	37	140
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	144.4	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

## Cape Fear

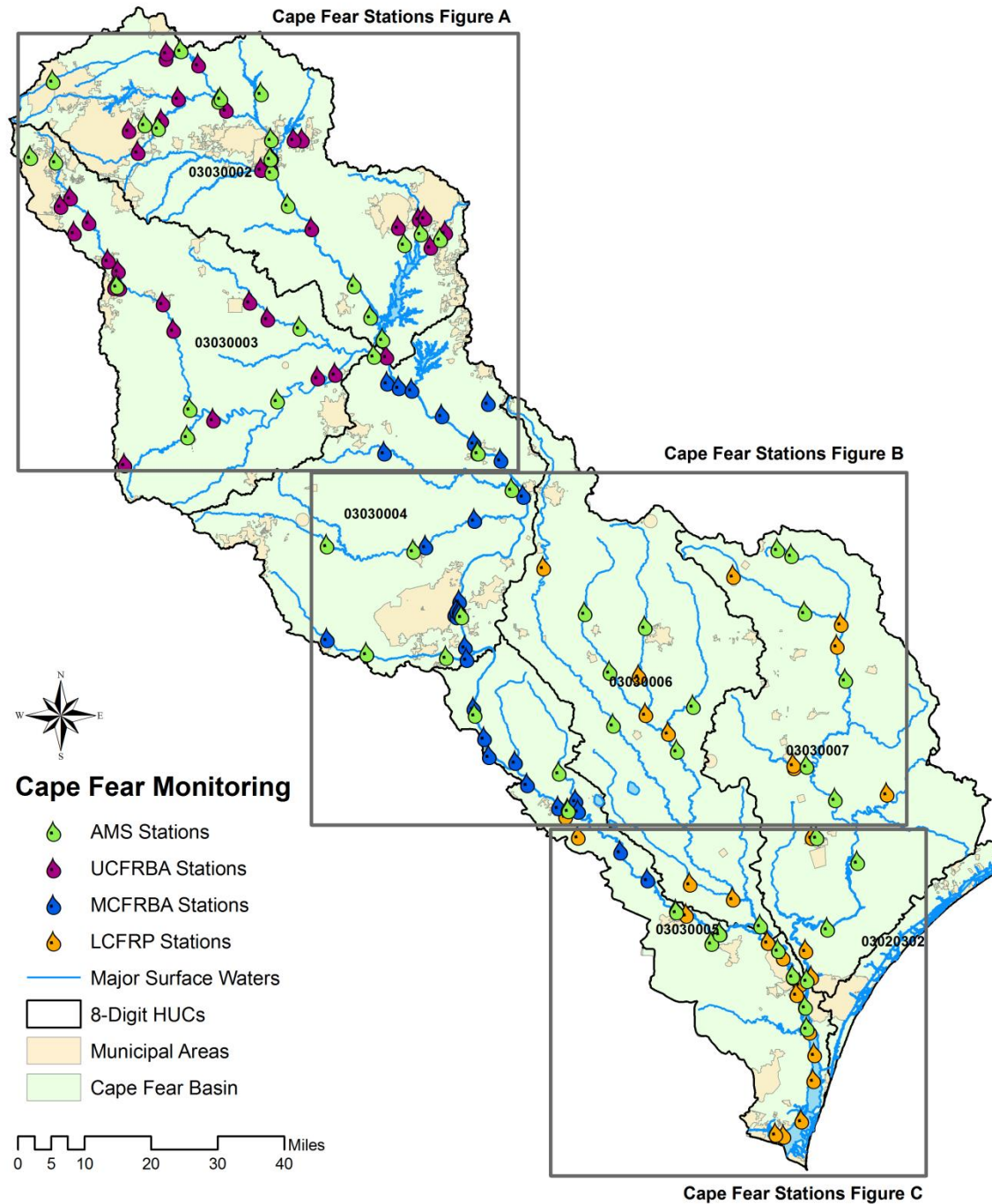
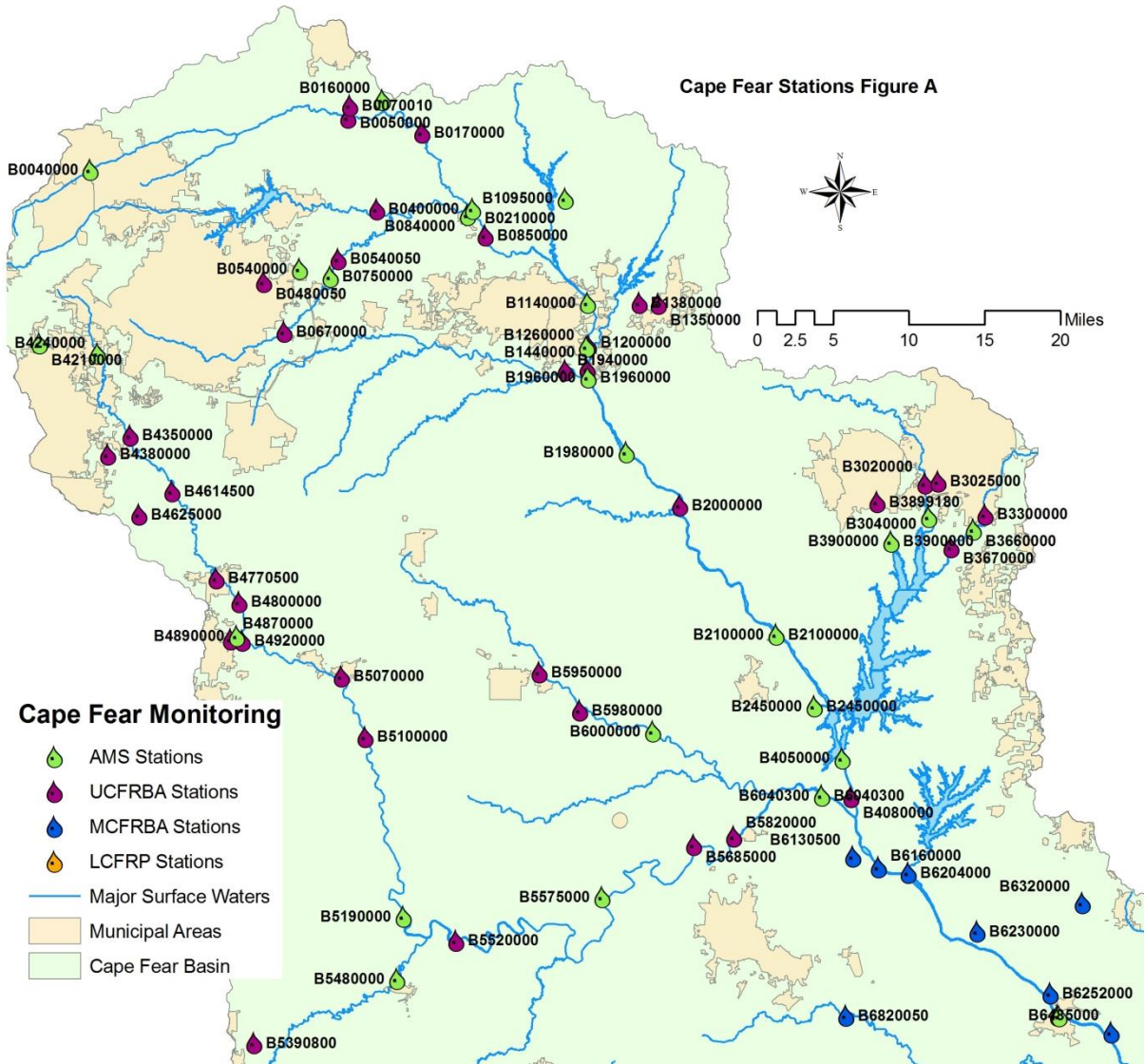
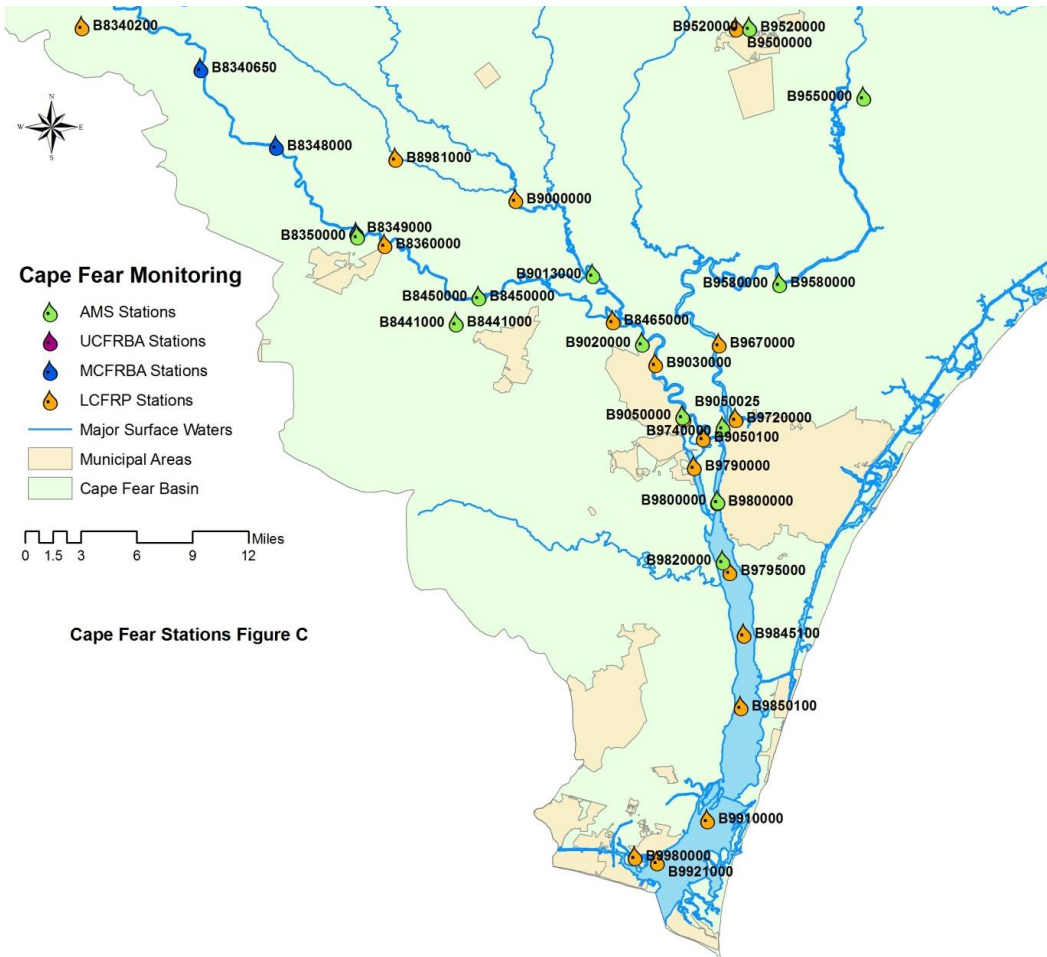
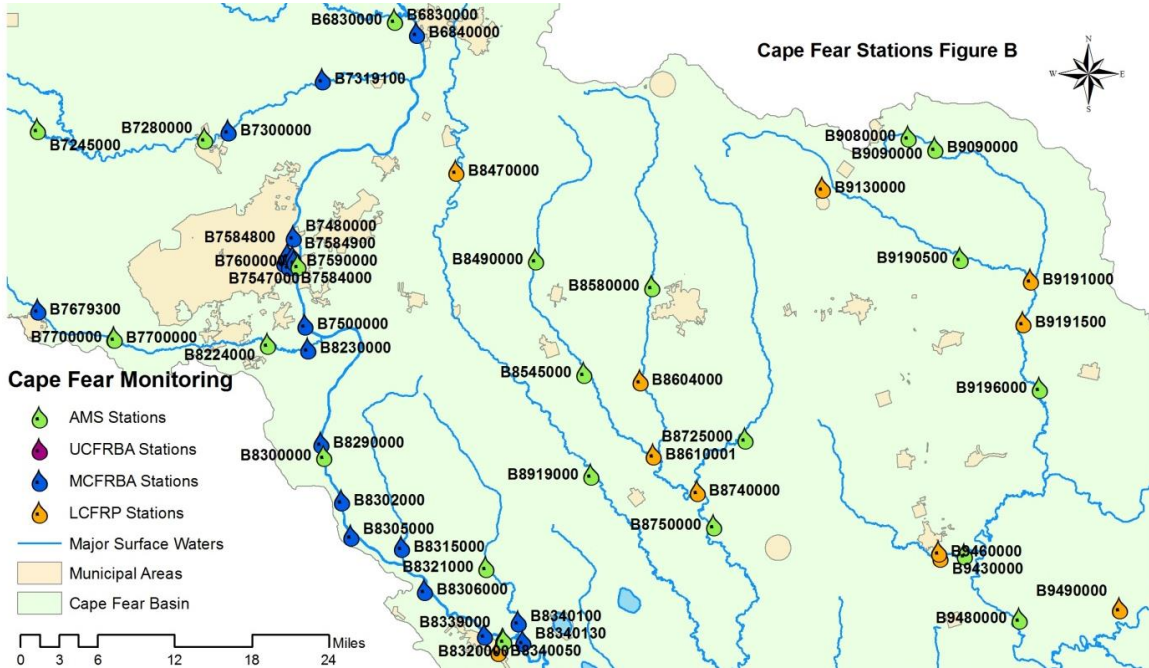


Figure CPF-1. Cape Fear River basin ambient monitoring station locations (see details below).





NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

Table CPF-1. AMS monitoring stations in the Cape Fear River basin.

Agency	Station	Location	Latitude	Longitude	Stream Class
<b>HUC 03030002</b>					
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	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 & UCFRBA	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 & UCFRBA	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
<b>HUC 03030003</b>					
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 Carbondon	35.5200	-79.3485	WS-IV HQW
AMS	B6000000	Rocky River at NC 902 near Pittsboro	35.6787	-79.2898	WS-III CA
AMS & UCFRBA	B6040300	Deep River at SR 1011 Old US 1 near Moncure	35.6176	-79.0912	WS-IV
<b>HUC 03030004</b>					
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
<b>HUC 03030005</b>					
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

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Agency	Station	Location	Latitude	Longitude	Stream Class
AMS	B9820000	Cape Fear River at CM 56 near Wilmington	34.1475	-77.9526	SC
<b>HUC 03030006</b>					
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 +
<b>HUC 03030007</b>					
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

Table CPF-2. UCFRBA monitoring stations in the Cape Fear River basin.

Agency	Station	Location	Latitude	Longitude	Stream Class
<b>HUC 03030002</b>					
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 Greensboro	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 Town	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	B2000000	Haw River at SR 1005 near Saxpahaw	35.8953	-79.2585	C NSW
UCFRBA & AMS	B2100000	Haw River at SR 1713 near Bynum	35.7716	-79.1449	WS-IV NSW



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Agency	Station	Location	Latitude	Longitude	Stream Class
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 & AMS	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 & AMS	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
<b>HUC 03030003</b>					
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 & AMS	B6040300	Deep River at SR 1011 Old US 1 near Moncure	35.6176	-79.0912	WS-IV

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

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

Agency	Station	Location	Latitude	Longitude	Stream Class
<b>HUC 03030004</b>					
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
<b>HUC 03030005</b>					
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

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

Agency	Station	Location	Latitude	Longitude	Stream Class
<b>HUC 03030005</b>					
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
<b>HUC 03030006</b>					
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+
<b>HUC 03030007</b>					
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:** 01/04/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	3	5.4		3.8	4.4	5.2	6	9.4	10.7	12.4
pH (SU)	56	0	<5	9	16.1	89.7	3.8	4.4	5.2	6	9.4	10.7	12.4
	57	0	<6	0	0		6.4	6.7	6.9	7.2	7.6	8	8.4
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.4	6.7	6.9	7.2	7.6	8	8.4
	59	0	N/A				49	67	74	87	101	111	278
Water Temperature (°C)	59	0	>32	0	0		1.1	4.5	6.8	14.8	20.6	22.9	23.6
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		17	20	24	34	38	42	44
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	12	22.2	117
Turbidity (NTU)	59	0	>50	1	1.7		6.7	8.8	12	18	24	31	85
<b>Nutrients (mg/L)</b>													
NH3 as N	59	5	N/A				0.02	0.02	0.02	0.04	0.07	0.13	0.34
NO2 + NO3 as N	54	5	>10	0	0		0.02	0.02	0.04	0.08	0.13	0.18	0.84
TKN as N	59	1	N/A				0.2	0.26	0.31	0.39	0.49	0.61	0.9
Total Phosphorus	59	0	N/A				0.02	0.03	0.03	0.04	0.05	0.08	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	168.4	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:** 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:** 01/29/2010 to 12/12/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	4	4.7		3.1	5.1	5.5	6.8	8.5	10.9	12.5
pH (SU)	85	0	<5	7	8.2		3.1	5.1	5.5	6.8	8.5	10.9	12.5
	85	0	<6	4	4.7		5.9	6.1	6.5	6.7	6.9	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.1	6.5	6.7	6.9	7.1	7.4
Water Temperature (°C)	84	0	N/A				53	68	76	98	112	120	136
	85	0	>32	0	0		0.2	4.2	9.6	19.4	23.4	25.1	27
<b>Other</b>													
TSS (mg/L)	60	9	N/A				2.5	2.5	3	4	7	11	22
Turbidity (NTU)	60	0	>50	1	1.7		5.6	8.5	10.2	12.5	17.4	31.6	52.6
<b>Nutrients (mg/L)</b>													
NH3 as N	60	35	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.25
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	0.26	0.4	0.51	0.59	0.92
Total Phosphorus	60	2	N/A				0.02	0.03	0.04	0.05	0.07	0.12	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	122.2	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:** 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:** 01/29/2010 to 12/12/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	11	18.3	96.6	2.2	3.1	4.2	7.4	10	11.1	11.9
pH (SU)	60	0	<5	17	28.3	> 99.9	2.2	3.1	4.2	7.4	10	11.1	11.9
	60	0	<6	6	10		5.7	6	6.4	6.7	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		5.7	6	6.4	6.7	6.9	7.1	7.3
	60	0	N/A				48	59	66	74	93	112	143
Water Temperature (°C)	60	0	>32	0	0		1.4	6.3	8.3	17	24	26.4	30.6
<b>Other</b>													
TSS (mg/L)	60	11	N/A				2.5	2.5	3	5.5	8	10	46
Turbidity (NTU)	60	0	>50	4	6.7		3.3	4.1	5	6.8	10.5	33.1	77.5
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.09	0.16	0.24	0.3
NO2 + NO3 as N	60	8	>10	0	0		0.02	0.02	0.04	0.08	0.15	0.24	0.42
TKN as N	60	4	N/A				0.2	0.24	0.38	0.51	0.64	0.82	1.09
Total Phosphorus	60	9	N/A				0.02	0.02	0.02	0.03	0.04	0.07	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	40	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 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:** 01/04/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	50	0	<4	0	0		5.8	7.1	8.5	10.1	11.8	12.7	15
pH (SU)	51	0	<5	0	0		5.8	7.1	8.5	10.1	11.8	12.7	15
	51	0	<6	0	0		6.6	7	7.2	7.4	7.6	7.9	8.3
Spec. conductance (umhos/cm at 25°C)	53	0	>9	0	0		6.6	7	7.2	7.4	7.6	7.9	8.3
Water Temperature (°C)	53	0	N/A				40	88	112	133	142	148	228
	53	0	>32	0	0		2.1	5.8	8.6	15.1	22	24.8	27
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		29	29	37	44	50	51	52
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	12	36	84	644
Turbidity (NTU)	52	0	>50	5	9.6		3.8	5.2	7	9.4	30.2	60.5	450
<b>Nutrients (mg/L)</b>													
NH3 as N	52	18	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.68
NO2 + NO3 as N	52	0	>10	0	0		0.08	0.25	0.34	0.48	0.66	0.74	0.85
TKN as N	52	7	N/A				0.2	0.2	0.2	0.3	0.39	0.63	1.8
Total Phosphorus	52	0	N/A				0.03	0.03	0.04	0.05	0.1	0.12	0.66
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	153.9	13	25	77.1									

**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:** 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:** 01/29/2010 to 12/12/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.8	6	6.6	7.3	9.3	11.2	13.1
pH (SU)	85	0	<5	1	1.2		4.8	6	6.6	7.3	9.3	11.2	13.1
	85	0	<6	1	1.2		5.9	6.5	6.7	7	7.2	7.3	8.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.5	6.7	7	7.2	7.3	8.6
Water Temperature (°C)	85	0	N/A				60	84	102	135	228	336	624
	85	0	>32	0	0		0.8	4.7	10	20.2	24	25.7	26.6
<b>Other</b>													
TSS (mg/L)	60	13	N/A				2	2.5	2.5	5	14	27.3	99
Turbidity (NTU)	60	0	>50	4	6.7		4.6	5.9	7.8	10.7	21.7	39.8	139
<b>Nutrients (mg/L)</b>													
NH3 as N	60	23	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.14
NO2 + NO3 as N	60	0	>10	0	0		0.05	0.09	0.15	0.22	0.32	0.48	0.84
TKN as N	60	5	N/A				0.2	0.23	0.38	0.52	0.65	0.74	0.97
Total Phosphorus	60	0	N/A				0.02	0.04	0.05	0.06	0.11	0.16	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	124.2	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:** 01/05/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		4.5	6.2	7.1	8.5	11.6	12.9	15.9
pH (SU)	57	0	<5	1	1.8		4.5	6.2	7.1	8.5	11.6	12.9	15.9
	58	0	<6	0	0		6.9	7.1	7.2	7.3	7.5	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	58	0	>9	0	0		6.9	7.1	7.2	7.3	7.5	7.6	7.9
	59	0	N/A				58	87	101	141	212	323	568
Water Temperature (°C)	60	0	>32	0	0		0.7	5.2	7.8	17	23.2	25.7	27.7
<b>Other</b>													
Chloride (mg/L)	3	0	>230	0	0		13	13	13	16	19	19	19
Fluoride (mg/L)	3	3	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	20	0	>100	0	0		10	24	26	34	42	50	51
Sulfate (mg/L)	3	0	>250	0	0		10	10	10	16	18	18	18
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	7.1	9.8	35.7	266
Turbidity (NTU)	60	0	>50	7	11.7	60.5	2.1	5.6	7.6	13	18.8	55	320
<b>Nutrients (mg/L)</b>													
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	0.14	0.21	0.26	0.34	0.42	7
TKN as N	60	0	N/A				0.23	0.36	0.39	0.45	0.54	0.61	1.5
Total Phosphorus	60	0	N/A				0.03	0.04	0.04	0.06	0.1	0.12	0.6
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	90.9	7	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		5.5	6	6.7	8.1	10.4	11.3	12.2
pH (SU)	60	0	<5	0	0		5.5	6	6.7	8.1	10.4	11.3	12.2
	60	0	<6	0	0		6.1	6.4	6.7	7	7.1	7.2	7.4
	60	0	>9	0	0		6.1	6.4	6.7	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				72	79	86	106	120	140	169
Water Temperature (°C)	60	0	>32	0	0		2.1	5.4	9.1	17.8	23.7	25.4	27.3
<b>Other</b>													
TSS (mg/L)	60	19	N/A				2.5	2.5	2.5	5	6	13.8	47
Turbidity (NTU)	60	0	>50	1	1.7		2	2.6	4.2	7.6	9.3	11.7	68.9
<b>Nutrients (mg/L)</b>													
NH3 as N	60	35	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.14
NO2 + NO3 as N	60	10	>10	0	0		0.02	0.02	0.05	0.1	0.16	0.26	0.4
TKN as N	60	7	N/A				0.2	0.2	0.28	0.46	0.56	0.76	1
Total Phosphorus	60	12	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	46.2	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.5	5.5	6.3	6.9	9.6	11.1	12.9
	85	0	<5	3	3.5		4.5	5.5	6.3	6.9	9.6	11.1	12.9
pH (SU)	85	0	<6	0	0		6	6.7	7	7.1	7.3	7.5	8.1
	85	0	>9	0	0		6	6.7	7	7.1	7.3	7.5	8.1
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				91	126	170	226	266	296	1041
Water Temperature (°C)	85	0	>32	0	0		1.2	7.4	11.6	20.7	24.4	26.2	27.4
<b>Other</b>													
TSS (mg/L)	60	28	N/A				2.5	2.5	2.5	3	4	8	19
Turbidity (NTU)	60	0	>50	0	0		1.3	2.8	3.4	4.6	7.9	12	30.1
<b>Nutrients (mg/L)</b>													
NH3 as N	60	27	N/A				0.02	0.02	0.02	0.04	0.06	0.14	0.37
NO2 + NO3 as N	60	0	>10	0	0		0.03	0.09	0.24	0.35	0.48	0.62	0.83
TKN as N	60	5	N/A				0.2	0.2	0.3	0.48	0.62	0.78	0.84
Total Phosphorus	60	1	N/A				0.02	0.04	0.05	0.06	0.08	0.1	0.4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	255.8	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:** 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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		4.2	5.4	6.2	7.5	9.5	10.6	12.4
pH (SU)	56	0	<5	2	3.6		4.2	5.4	6.2	7.5	9.5	10.6	12.4
	57	0	<6	0	0		6.9	7	7.1	7.2	7.3	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.9	7	7.1	7.2	7.3	7.5	7.8
	57	0	N/A				60	145	256	331	375	446	849
Water Temperature (°C)	58	0	>32	0	0		5.1	8.3	12.2	17.2	22.2	25	26.8
<b>Other</b>													
Chloride (mg/L)	2	0	>230	0	0		21	21	21	32	44	44	44
Fluoride (mg/L)	3	3	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	20	0	>100	0	0		38	56	62	70	80	87	93
Sulfate (mg/L)	3	0	>250	0	0		19	19	19	23	48	48	48
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	12	12	22
Turbidity (NTU)	55	0	>50	2	3.6		1.1	1.8	2.3	3.9	8.9	27.6	140
<b>Nutrients (mg/L)</b>													
NH3 as N	57	0	N/A				0.04	0.06	0.08	0.14	0.36	1	2.6
NO2 + NO3 as N	57	0	>10	13	22.8	99.6	0.35	1.86	3.7	7.6	10	12	14
TKN as N	55	0	N/A				0.68	0.75	0.87	0.98	1.2	1.74	3.3
Total Phosphorus	57	0	N/A				0.06	0.07	0.11	0.16	0.27	0.47	0.7
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	259.8	17	30.4	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.1	6.6	7	7.5	9.9	11.5	13.9
pH (SU)	85	0	<5	1	1.2		4.1	6.6	7	7.5	9.9	11.5	13.9
	85	0	<6	1	1.2		6	6.6	7	7.2	7.3	7.5	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6	6.6	7	7.2	7.3	7.5	7.9
	85	0	N/A				49	147	218	301	376	418	861
Water Temperature (°C)	85	0	>32	0	0		2.7	8.5	11.8	20.6	24	25.6	27.5
<b>Other</b>													
TSS (mg/L)	60	26	N/A				2	2.5	2.5	3	5.8	17.7	153
Turbidity (NTU)	60	0	>50	1	1.7		1	1.7	2.5	3.5	9	20	134
<b>Nutrients (mg/L)</b>													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.04	0.17	0.73	1.85
NO2 + NO3 as N	60	0	>10	12	20	98.5	0.32	1.43	3.22	5.52	9.74	11.98	15.2
TKN as N	60	17	N/A				0.2	0.2	0.2	0.52	0.87	1.25	2.6
Total Phosphorus	60	0	N/A				0.05	0.07	0.09	0.13	0.2	0.36	0.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	192.2	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.3	6	6.6	7.9	9.8	11.3	14.1
pH (SU)	85	0	<5	0	0		5.3	6	6.6	7.9	9.8	11.3	14.1
	85	0	<6	0	0		6.1	6.7	7	7.2	7.5	7.7	8.3
	85	0	>9	0	0		6.1	6.7	7	7.2	7.5	7.7	8.3
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				78	122	165	227	284	315	1142
Water Temperature (°C)	85	0	>32	0	0		0.8	7.8	11.8	20.7	24.6	27	28.8
<b>Other</b>													
TSS (mg/L)	60	16	N/A				2	2.5	2.5	4	7	19.7	138
Turbidity (NTU)	60	0	>50	2	3.3		2	2.3	3.8	6.6	13.6	22	124
<b>Nutrients (mg/L)</b>													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.04	0.12	0.45
NO2 + NO3 as N	60	3	>10	0	0		0.02	0.04	0.11	0.23	0.39	0.54	0.7
TKN as N	60	5	N/A				0.2	0.21	0.28	0.46	0.62	0.81	1.54
Total Phosphorus	60	1	N/A				0.02	0.04	0.05	0.07	0.08	0.1	0.14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	271.6	19	31.7	97.8									

**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:** 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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	50	0	<4	0	0		5.1	5.7	6.2	7.3	9	10.4	12.9
pH (SU)	50	0	<5	0	0		5.1	5.7	6.2	7.3	9	10.4	12.9
	52	0	<6	0	0		6.9	7.1	7.3	7.4	7.6	7.7	7.8
Spec. conductance (umhos/cm at 25°C)	52	0	>9	0	0		6.9	7.1	7.3	7.4	7.6	7.7	7.8
	52	0	N/A				76	230	470	597	713	871	958
Water Temperature (°C)	53	0	>32	0	0		9	11.9	14.7	20	23.6	26.3	28.7
<b>Other</b>													
Chloride (mg/L)	3	0	>230	0	0		57	57	57	58	91	91	91
Fluoride (mg/L)	3	1	>1.8	0	0		0.4	0.4	0.4	0.4	0.5	0.5	0.5
Hardness (mg/L)	18	0	>100	0	0		32	51	60	64	69	76	81
Sulfate (mg/L)	3	0	>250	0	0		54	54	54	60	140	140	140
TSS (mg/L)	18	15	N/A				6.2	6.2	6.2	6.2	12	18.2	65
Turbidity (NTU)	53	0	>50	2	3.8		1.1	1.8	2.4	4.2	13	43	140
<b>Nutrients (mg/L)</b>													
NH3 as N	53	0	N/A				0.02	0.03	0.04	0.06	0.1	0.22	6.7
NO2 + NO3 as N	53	0	>10	3	5.7		0.72	1.46	3.95	6.2	7.35	8.76	16
TKN as N	52	0	N/A				1	1.1	1.2	1.4	1.68	2.41	8.5
Total Phosphorus	53	0	N/A				0.16	0.19	0.26	0.32	0.56	2.58	4.9
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	282	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:** 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:** NCS PST

**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
<b>Other</b>													
Hardness (mg/L)	4	0	>100	0	0		66	66	66	68	79	82	82

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/26/2010 to 04/12/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	4	0	<4	0	0		8.2	8.2	8.4	9.2	10.1	10.3	10.3
pH (SU)	4	0	<5	0	0		8.2	8.2	8.4	9.2	10.1	10.3	10.3
	4	0	<6	0	0		6.5	6.5	6.5	6.9	7.2	7.2	7.2
	4	0	>9	0	0		6.5	6.5	6.5	6.9	7.2	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	4	0	N/A				239	239	292	508	685	725	725
Water Temperature (°C)	4	0	>32	0	0		8.7	8.7	9.2	13.9	18.8	19.3	19.3
<b>Other</b>													
TSS (mg/L)	4	0	N/A				2	2	3.5	13	27.8	31	31
Turbidity (NTU)	4	0	>50	0	0		4	4	4.6	14	33.8	37.8	37.8
<b>Nutrients (mg/L)</b>													
NH3 as N	4	0	N/A				0.04	0.04	0.04	0.08	0.16	0.18	0.18
NO2 + NO3 as N	4	0	>10	0	0		1.72	1.72	1.92	4.38	7.88	8.43	8.43
TKN as N	4	0	N/A				1.14	1.14	1.18	1.38	1.62	1.67	1.67
Total Phosphorus	4	0	N/A				0.26	0.26	0.26	0.36	0.46	0.47	0.47
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
4	282.7	2	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:** REEDY FORK AT NC 87 AT OSSIPEE

**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:** 01/05/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.6	7.5	7.9	8.8	11.3	12.6	14.7
pH (SU)	56	0	<5	0	0		6.6	7.5	7.9	8.8	11.3	12.6	14.7
	57	0	<6	0	0		6.8	7.1	7.4	7.6	7.7	7.8	8.3
	57	0	>9	0	0		6.8	7.1	7.4	7.6	7.7	7.8	8.3
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				55	125	194	374	521	614	763
Water Temperature (°C)	59	0	>32	0	0		2.7	6.9	9.6	18.4	24.1	26.1	28.7
<b>Other</b>													
Chloride (mg/L)	3	0	>230	0	0		71	71	71	77	79	79	79
Fluoride (mg/L)	3	0	>1.8	0	0		0.5	0.5	0.5	0.6	0.6	0.6	0.6
Hardness (mg/L)	20	0	>100	0	0		32	34	52	56	62	66	66
Sulfate (mg/L)	3	0	>250	0	0		66	66	66	77	83	83	83
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	10.4	16.5	217
Turbidity (NTU)	60	0	>50	5	8.3		1.4	2.3	3.6	5.8	10	35.1	200
<b>Nutrients (mg/L)</b>													
NH3 as N	59	5	N/A				0.02	0.02	0.04	0.06	0.09	0.18	1.3
NO2 + NO3 as N	59	0	>10	0	0		0.17	0.66	1.2	3.3	5.1	7	8.6
TKN as N	58	0	N/A				0.31	0.65	0.78	0.9	1.1	1.61	2.5
Total Phosphorus	59	0	N/A				0.04	0.1	0.13	0.18	0.25	0.42	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	155	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:** 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:** 01/26/2010 to 04/12/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	4	0	<4	0	0		9.6	9.6	10	11.1	11.5	11.6
pH (SU)	4	0	<5	0	0		9.6	9.6	10	11.1	11.5	11.6
	4	0	<6	1	25		6	6	6.2	6.7	7.4	7.6
	4	0	>9	0	0		6	6	6.2	6.7	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	4	0	N/A				68	68	94	174	227	244
Water Temperature (°C)	4	0	>32	0	0		6.8	6.8	7	11.4	17	17.6
<b>Other</b>												
TSS (mg/L)	4	0	N/A				4	4	5.8	18.5	53	62
Turbidity (NTU)	4	0	>50	1	25		7.3	7.3	10.2	25.7	70.7	83.4
<b>Nutrients (mg/L)</b>												
NH3 as N	4	2	N/A				0.02	0.02	0.02	0.04	0.2	0.25
NO2 + NO3 as N	4	0	>10	0	0		0.26	0.26	0.38	0.85	1.25	1.34
TKN as N	4	0	N/A				0.44	0.44	0.52	0.77	0.84	0.86
Total Phosphorus	4	0	N/A				0.07	0.07	0.07	0.1	0.38	0.46
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
4	119.4	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:** 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 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	81	0	<4	0	0		7	7.5	7.7	8.5	10.5	11.7	14.5
pH (SU)	81	0	<5	0	0		7	7.5	7.7	8.5	10.5	11.7	14.5
	81	0	<6	0	0		6.4	6.9	7.1	7.5	7.8	8.1	8.8
	81	0	>9	0	0		6.4	6.9	7.1	7.5	7.8	8.1	8.8
Spec. conductance (umhos/cm at 25°C)	81	0	N/A				81	118	148	243	390	468	686
Water Temperature (°C)	81	0	>32	0	0		1.5	8.2	12.6	21.9	25	27.2	28.5
<b>Other</b>													
TSS (mg/L)	56	14	N/A				2.5	2.5	2.6	6	12.2	37.6	73
Turbidity (NTU)	56	0	>50	1	1.8		2.1	2.6	3.7	9.5	17.2	34.6	194
<b>Nutrients (mg/L)</b>													
NH3 as N	56	27	N/A				0.02	0.02	0.02	0.02	0.05	0.13	0.44
NO2 + NO3 as N	56	1	>10	0	0		0.02	0.34	0.86	1.62	2.99	4.8	8.48
TKN as N	56	1	N/A				0.2	0.41	0.53	0.71	0.89	1.12	1.53
Total Phosphorus	56	0	N/A				0.06	0.07	0.09	0.12	0.18	0.25	1.01
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	85.4	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:** 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:** 01/05/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	47	0	<4	0	0		4.6	5.8	6.9	8.9	10.7	12.6	15.6
pH (SU)	47	0	<5	1	2.1		4.6	5.8	6.9	8.9	10.7	12.6	15.6
	48	0	<6	0	0		6.3	6.9	7.1	7.3	7.4	7.6	8.2
Spec. conductance (umhos/cm at 25°C)	48	0	>9	0	0		6.3	6.9	7.1	7.3	7.4	7.6	8.2
	49	0	N/A				50	65	86	102	116	132	146
Water Temperature (°C)	49	0	>32	0	0		0.9	5.1	7.8	14.7	20.6	23.5	25.1
<b>Other</b>													
Hardness (mg/L)	17	0	>100	0	0		24	25	26	33	42	47	49
TSS (mg/L)	17	12	N/A				6.2	6.2	6.2	6.2	16	81.8	93
Turbidity (NTU)	51	0	>50	5	9.8		2.7	3.5	5.6	9.4	18	58	150
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	191.4	13	25.5	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:** 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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	0	0		6.3	7.4	8.4	9.8	12.3	13.8	15.9
pH (SU)	58	0	<5	0	0		6.3	7.4	8.4	9.8	12.3	13.8	15.9
	59	0	<6	0	0		7	7.4	7.5	7.8	8.4	8.6	9.2
	59	0	>9	1	1.7		7	7.4	7.5	7.8	8.4	8.6	9.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				50	136	179	225	385	534	722
Water Temperature (°C)	59	0	>32	0	0		1.8	6.3	10.3	18.1	24.8	28.5	31.7
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		15	26	36	46	52	56	60
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.8	14.2	29	42
Turbidity (NTU)	59	0	>50	6	10.2	45.3	2.1	2.6	3.9	8.1	17	55	170
<b>Nutrients (mg/L)</b>													
NH3 as N	58	5	N/A				0.02	0.02	0.02	0.04	0.1	0.26	0.52
NO2 + NO3 as N	58	0	>10	0	0		0.58	0.85	1.1	1.8	3.2	4.12	7.3
TKN as N	57	0	N/A				0.56	0.7	0.8	0.93	1.1	1.3	1.7
Total Phosphorus	58	0	N/A				0.06	0.09	0.1	0.12	0.22	0.3	0.58
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	79.9	9	15.5										

**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 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.6	7.1	7.8	10.1	11.2	13.1
pH (SU)	85	0	<5	0	0		5.9	6.6	7.1	7.8	10.1	11.2	13.1
	85	0	<6	0	0		6.1	6.8	7	7.3	7.7	8	8.8
	85	0	>9	0	0		6.1	6.8	7	7.3	7.7	8	8.8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				64	104	146	241	378	500	682
Water Temperature (°C)	85	0	>32	0	0		1.3	7.4	11.2	21.4	25.3	27.6	29.6
<b>Other</b>													
TSS (mg/L)	60	17	N/A				2	2.5	2.5	7.5	16.8	54.4	317
Turbidity (NTU)	60	0	>50	5	8.3		1.4	2.5	3.5	9.9	16.2	38.3	224
<b>Nutrients (mg/L)</b>													
NH3 as N	60	22	N/A				0.02	0.02	0.02	0.04	0.09	0.19	0.45
NO2 + NO3 as N	60	0	>10	0	0		0.27	0.52	0.91	1.44	2.78	3.86	7.76
TKN as N	60	1	N/A				0.2	0.48	0.61	0.82	1.08	1.33	3.17
Total Phosphorus	60	0	N/A				0.02	0.06	0.09	0.12	0.18	0.26	0.59
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	132.4	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:** 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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		4.8	5.3	6.6	8.7	10.8	12.9	15.8
pH (SU)	57	0	<5	1	1.8		4.8	5.3	6.6	8.7	10.8	12.9	15.8
	58	0	<6	0	0		7	7.2	7.3	7.5	7.7	8	8.5
Spec. conductance (umhos/cm at 25°C)	58	0	>9	0	0		7	7.2	7.3	7.5	7.7	8	8.5
	58	0	N/A				112	141	210	268	303	322	435
Water Temperature (°C)	58	0	>32	0	0		1.4	6.5	8.7	15.2	20.2	24.3	27
<b>Other</b>													
Hardness (mg/L)	20	0	>100	2	10		32	50	78	90	98	109	110
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	30
Turbidity (NTU)	59	1	>50	0	0		1	1.4	2.5	3.5	12	33	50
<b>Nutrients (mg/L)</b>													
NH3 as N	58	39	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.05
NO2 + NO3 as N	58	2	>10	0	0		0.02	0.04	0.18	0.38	0.55	0.74	4
TKN as N	58	2	N/A				0.2	0.2	0.24	0.3	0.45	0.64	1
Total Phosphorus	58	5	N/A				0.02	0.02	0.02	0.04	0.06	0.13	0.15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	195.2	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	5	5.9		2.3	4.5	5.4	6.4	7.9	9.9	11.4
pH (SU)	85	0	<5	13	15.3	92	2.3	4.5	5.4	6.4	7.9	9.9	11.4
	85	0	<6	2	2.4		5.8	6.2	6.5	6.7	6.9	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.8	6.2	6.5	6.7	6.9	7.2	7.3
Water Temperature (°C)	85	0	N/A				78	116	134	154	168	179	240
	85	0	>32	0	0		2.7	6.4	10.1	18.9	21.7	23	24.5
<b>Other</b>													
TSS (mg/L)	60	0	N/A				3	4	5	7	10	15.8	38
Turbidity (NTU)	60	0	>50	0	0		4.7	7.1	8.4	11.6	17.8	31	38.5
<b>Nutrients (mg/L)</b>													
NH3 as N	47	13	N/A				0.02	0.02	0.02	0.04	0.08	0.12	0.26
NO2 + NO3 as N	47	0	>10	0	0		0.13	0.16	0.27	0.38	0.55	0.74	1.11
TKN as N	47	15	N/A				0.2	0.2	0.2	0.37	0.62	0.72	1.07
Total Phosphorus	47	1	N/A				0.02	0.02	0.03	0.04	0.04	0.05	0.08
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	374.1	25	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.5	6.8	7.2	9.4	11.9	13.8
pH (SU)	85	0	<5	0	0		5.9	6.5	6.8	7.2	9.4	11.9	13.8
	85	0	<6	0	0		6.4	6.8	7.1	7.2	7.4	7.5	7.7
	85	0	>9	0	0		6.4	6.8	7.1	7.2	7.4	7.5	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				100	235	311	410	490	598	700
Water Temperature (°C)	85	0	>32	0	0		1.8	6.2	10.9	20.2	23.2	24.8	27.3
<b>Other</b>													
TSS (mg/L)	60	14	N/A				2	2.5	2.6	4	7	15.7	35
Turbidity (NTU)	60	0	>50	2	3.3		3	3.8	4.8	7.7	11.4	22.9	60.4
<b>Nutrients (mg/L)</b>													
NH3 as N	60	6	N/A				0.02	0.02	0.05	0.11	0.19	0.34	6.32
NO2 + NO3 as N	60	0	>10	1	1.7		0.35	0.7	0.92	1.62	4.53	6.63	16.5
TKN as N	60	3	N/A				0.2	0.57	0.75	0.88	1.16	1.52	6.4
Total Phosphorus	60	0	N/A				0.12	0.17	0.2	0.28	0.42	0.6	1.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	123.1	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6	6.6	7.3	8.3	10.4	11.6	13.9
pH (SU)	85	0	<5	0	0		6	6.6	7.3	8.3	10.4	11.6	13.9
	85	0	<6	0	0		6.1	6.9	7	7.4	7.8	8.3	8.8
	85	0	>9	0	0		6.1	6.9	7	7.4	7.8	8.3	8.8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				70	114	159	232	376	491	672
Water Temperature (°C)	85	0	>32	0	0		1.6	7.6	11	21.7	25	27.6	29.6
<b>Other</b>													
TSS (mg/L)	60	18	N/A				2.5	2.5	2.5	6	12.5	43.5	280
Turbidity (NTU)	60	0	>50	5	8.3		1.3	2.4	3.3	9.8	16.5	37	221
<b>Nutrients (mg/L)</b>													
NH3 as N	60	25	N/A				0.02	0.02	0.02	0.03	0.06	0.14	0.42
NO2 + NO3 as N	60	0	>10	0	0		0.23	0.58	0.88	1.43	2.41	4.08	6.29
TKN as N	60	0	N/A				0.38	0.46	0.63	0.78	0.96	1.28	1.69
Total Phosphorus	60	0	N/A				0.03	0.06	0.08	0.12	0.2	0.28	0.65
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	119.2	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:** 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:** 01/26/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.8	5.3	5.7	6.6	9	10.7	12.2
pH (SU)	85	0	<5	2	2.4		3.8	5.3	5.7	6.6	9	10.7	12.2
	85	0	<6	0	0		6.3	6.6	6.8	7	7.2	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.3	6.6	6.8	7	7.2	7.2	7.5
Water Temperature (°C)	85	0	N/A				67	93	111	125	149	172	207
	85	0	>32	0	0		0.6	6.4	9.8	20.6	24.2	26	27.7
<b>Other</b>													
TSS (mg/L)	60	10	N/A				2	2.5	3.2	5	10	22	83
Turbidity (NTU)	60	0	>50	2	3.3		2.2	2.7	4.3	7	12.9	21.9	62.3
<b>Nutrients (mg/L)</b>													
NH3 as N	60	29	N/A				0.02	0.02	0.02	0.02	0.06	0.09	0.16
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.02	0.06	0.16	0.25	0.34	0.48
TKN as N	60	5	N/A				0.2	0.2	0.27	0.41	0.59	0.7	1.18
Total Phosphorus	60	10	N/A				0.02	0.02	0.03	0.04	0.05	0.06	0.48
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	194.4	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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	1	1.8		3.9	4.8	5.9	7.6	10.4	11.3	15.4
pH (SU)	56	0	<5	7	12.5	67.3	3.9	4.8	5.9	7.6	10.4	11.3	15.4
	59	0	<6	0	0		6.9	7	7.1	7.3	7.4	7.7	8.1
Spec. conductance (umhos/cm at 25°C)	59	0	>9	0	0		6.9	7	7.1	7.3	7.4	7.7	8.1
	59	0	N/A				96	138	159	222	366	608	876
Water Temperature (°C)	59	0	>32	0	0		2.6	6.8	9.1	18	23.7	26.4	29.3
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		34	39	40	44	52	58	60
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	10	18.8	82
Turbidity (NTU)	58	0	>50	1	1.7		2.9	4.4	5.6	8.2	15.2	30.2	65
<b>Nutrients (mg/L)</b>													
NH3 as N	55	5	N/A				0.02	0.02	0.04	0.09	0.24	0.56	1.6
NO2 + NO3 as N	55	0	>10	0	0		0.18	0.24	0.38	0.57	1.7	2.44	3.7
TKN as N	55	0	N/A				0.47	0.55	0.68	0.76	1.1	1.3	2.3
Total Phosphorus	55	0	N/A				0.05	0.05	0.07	0.1	0.15	0.4	0.9
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	111.4	9	15.5										

**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 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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		5.6	6.9	8	9.2	11.6	12.9	15.9
pH (SU)	56	0	<5	0	0		5.6	6.9	8	9.2	11.6	12.9	15.9
	58	0	<6	0	0		7.1	7.3	7.4	7.6	7.8	8.4	9.2
	58	0	>9	2	3.4		7.1	7.3	7.4	7.6	7.8	8.4	9.2
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				93	133	160	230	320	450	523
Water Temperature (°C)	58	0	>32	2	3.4		2.2	5.7	9.4	18.6	25.6	29	32.2
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		11	25	35	42	48	54	55
TSS (mg/L)	20	2	N/A				6.2	6.5	10.2	12.5	17.2	21.9	24
Turbidity (NTU)	58	0	>50	3	5.2		3.7	6.6	9.3	14	21.2	38.2	80
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	60.9	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		5.2	6.2	6.9	8	10.3	11.5	13.5
pH (SU)	60	0	<5	0	0		5.2	6.2	6.9	8	10.3	11.5	13.5
	60	0	<6	0	0		6.5	6.7	6.9	7.2	7.4	7.7	8.3
	60	0	>9	0	0		6.5	6.7	6.9	7.2	7.4	7.7	8.3
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				94	132	169	224	339	411	609
Water Temperature (°C)	60	0	>32	0	0		0.9	6.1	9.2	19.2	24.4	28.4	29.9
<b>Other</b>													
TSS (mg/L)	60	8	N/A				2.5	2.5	4	6.5	12.8	31.8	89
Turbidity (NTU)	60	0	>50	2	3.3		2.9	3.8	5.2	8.6	15.4	30	127
<b>Nutrients (mg/L)</b>													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.04	0.08	0.16	0.32
NO2 + NO3 as N	60	0	>10	0	0		0.22	0.48	0.75	1.08	1.55	3.05	3.76
TKN as N	60	1	N/A				0.2	0.42	0.57	0.69	0.83	1.09	1.7
Total Phosphorus	60	0	N/A				0.02	0.05	0.07	0.1	0.13	0.19	0.42
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	83.3	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:** 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:** 01/13/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	123	0	<4	0	0		6.5	7.4	8.2	9.8	12.2	13.3	16.1
	123	0	<5	0	0		6.5	7.4	8.2	9.8	12.2	13.3	16.1
pH (SU)	124	0	<6	0	0		6.5	7.3	7.6	7.9	8.3	8.5	9.3
	124	0	>9	3	2.4		6.5	7.3	7.6	7.9	8.3	8.5	9.3
Salinity (ppt)	3	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	124	0	N/A				65	104	133	199	294	394	635
Water Temperature (°C)	125	0	>32	1	0.8		1.4	6.1	9.4	17.8	25.8	28.6	32.2
<b>Other</b>													
Chloride (mg/L)	3	0	>230	0	0		22	22	22	24	38	38	38
Fluoride (mg/L)	3	3	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	20	0	>100	0	0		30	32	33	38	46	51	54
Sulfate (mg/L)	3	0	>250	0	0		16	16	16	21	40	40	40
TSS (mg/L)	123	68	N/A				6.2	6.2	6.2	6.5	12	27.2	344
Turbidity (NTU)	57	0	>50	1	1.8		1.3	2.3	4.2	12	22	40	55
<b>Nutrients (mg/L)</b>													
NH3 as N	124	45	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.42
NO2 + NO3 as N	124	0	>10	0	0		0.15	0.42	0.57	0.97	1.6	2.15	4.2
TKN as N	124	0	N/A				0.41	0.5	0.57	0.65	0.77	0.94	1.9
Total Phosphorus	124	0	N/A				0.03	0.06	0.06	0.09	0.13	0.19	0.58

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
56	46.8	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	65	0	<4	0	0		6.4	7.5	8.1	9.2	11.4	12.4	14.5
pH (SU)	65	0	<5	0	0		6.4	7.5	8.1	9.2	11.4	12.4	14.5
	65	0	<6	0	0		6.4	7	7.3	7.8	8.2	8.5	9.2
Spec. conductance (umhos/cm at 25°C)	65	0	>9	2	3.1		6.4	7	7.3	7.8	8.2	8.5	9.2
Water Temperature (°C)	65	0	N/A				91	123	158	229	352	441	558
	65	0	>32	0	0		0.8	6.1	9.8	20.1	26.1	29.6	30.8
<b>Other</b>													
TSS (mg/L)	60	12	N/A				1	2.5	3	5	9.8	17.8	187
Turbidity (NTU)	60	0	>50	2	3.3		1.5	2.3	3.1	6.6	15.3	28.9	149
<b>Nutrients (mg/L)</b>													
NH3 as N	60	29	N/A				0.02	0.02	0.02	0.02	0.05	0.11	0.19
NO2 + NO3 as N	60	0	>10	0	0		0.12	0.32	0.58	0.95	1.56	2.32	2.98
TKN as N	60	3	N/A				0.2	0.3	0.45	0.66	0.85	1.15	1.36
Total Phosphorus	60	0	N/A				0.02	0.04	0.06	0.08	0.12	0.23	0.39
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	47	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:** 03/08/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	32	0	<4	0	0		4	5.3	6.6	9.6	10.8	11.5	12.6
pH (SU)	32	0	<5	2	6.2		4	5.3	6.6	9.6	10.8	11.5	12.6
	33	0	<6	0	0		6.9	6.9	7.2	7.5	7.8	8.7	8.9
Salinity (ppt)	33	0	>9	0	0		6.9	6.9	7.2	7.5	7.8	8.7	8.9
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				81	88	108	172	222	276	306
Water Temperature (°C)	33	0	>32	1	3		3.1	8.2	9	21	27.2	29.1	32.3
<b>Other</b>													
Chlorophyll a (ug/L)	32	0	>40	4	12.5	60	1	3	6	20	38	44	71
Hardness (mg/L)	20	0	>100	0	0		29	30	32	37	40	44	44
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	7.9	11.8	14.9	16
Turbidity (NTU)	32	0	>25	2	6.2		5	6	7.7	11	18.5	22.7	31
<b>Nutrients (mg/L)</b>													
NH3 as N	32	14	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.13
NO2 + NO3 as N	32	0	>10	0	0		0.04	0.1	0.26	0.5	0.7	0.88	1.8
TKN as N	32	0	N/A				0.22	0.45	0.72	0.81	0.98	1	1.3
Total Phosphorus	32	0	N/A				0.03	0.05	0.07	0.08	0.09	0.12	0.15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
32	19.3	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:** 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:** 01/18/2010 to 04/26/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	4	0	<4	0	0		7.8	7.8	8.2	9.7	11.3	11.7
pH (SU)	4	0	<5	0	0		7.8	7.8	8.2	9.7	11.3	11.7
	4	0	<6	1	25		6	6	6.1	6.6	6.7	6.7
	4	0	>9	0	0		6	6	6.1	6.6	6.7	6.7
Spec. conductance (umhos/cm at 25°C)	4	0	N/A				66	66	76	122	175	187
Water Temperature (°C)	4	0	>32	0	0		5	5	6	11.8	19.8	21.6
<b>Other</b>												
TSS (mg/L)	4	0	N/A				4	4	5.2	12	18	19
Turbidity (NTU)	4	0	>25	1	25		8.8	8.8	10.2	15.8	44.6	53.7
<b>Nutrients (mg/L)</b>												
NH3 as N	4	1	N/A				0.02	0.02	0.03	0.06	0.11	0.12
NO2 + NO3 as N	4	0	>10	0	0		0.38	0.38	0.43	0.58	0.66	0.68
TKN as N	4	1	N/A				0.2	0.2	0.28	0.55	0.7	0.73
Total Phosphorus	4	0	N/A				0.03	0.03	0.03	0.05	0.29	0.37
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
4	47.9	1	25									

**Key:**

# result: number of observations  
# ND: number of observations reported to be below detection level (non-detect)  
EL: Evaluation Level; applicable numeric or narrative water quality standard or action level  
Results not meeting EL: number and percentages of observations not meeting evaluation level  
%Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)  
Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/07/2010 to 12/19/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	25	29.4	> 99.9	0.6	2	3.4	5.2	7.4	9.5	11.9
pH (SU)	85	0	<5	38	44.7	> 99.9	0.6	2	3.4	5.2	7.4	9.5	11.9
	85	0	<6	3	3.5		5.3	6.2	6.5	6.8	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.3	6.2	6.5	6.8	6.9	7	7.3
Water Temperature (°C)	85	0	N/A				76	97	120	141	164	185	264
	85	0	>32	0	0		2	6.2	10.7	18.9	23.4	26	27.8
<b>Other</b>													
TSS (mg/L)	60	4	N/A				2.5	3	6	15	22.8	38.7	60
Turbidity (NTU)	60	0	>50	3	5		3.4	7.8	11.4	22	31.8	41.8	152
<b>Nutrients (mg/L)</b>													
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.21
NO2 + NO3 as N	60	13	>10	0	0		0.02	0.02	0.03	0.1	0.18	0.22	0.45
TKN as N	60	3	N/A				0.2	0.24	0.41	0.56	0.74	0.91	1.22
Total Phosphorus	60	2	N/A				0.02	0.05	0.06	0.08	0.11	0.18	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	154.7	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:** 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:** 01/07/2010 to 12/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	13	21.7	99.4	1.1	1.9	4.4	6.4	7.8	9.9	11.4
pH (SU)	60	0	<5	17	28.3	> 99.9	1.1	1.9	4.4	6.4	7.8	9.9	11.4
	60	0	<6	1	1.7		5.9	6.4	6.7	6.9	7	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		5.9	6.4	6.7	6.9	7	7.1	7.2
	60	0	N/A				66	159	176	222	266	332	502
Water Temperature (°C)	60	0	>32	0	0		1	5.9	9.6	15.2	21.2	24.2	26.5
<b>Other</b>													
TSS (mg/L)	60	6	N/A				1	2.5	5.2	12.5	26.8	43.5	188
Turbidity (NTU)	60	0	>50	10	16.7	92.7	2.6	6.7	12.5	21	38.4	63.2	170
<b>Nutrients (mg/L)</b>													
NH3 as N	60	10	N/A				0.02	0.02	0.03	0.05	0.08	0.12	0.23
NO2 + NO3 as N	60	9	>10	0	0		0.02	0.02	0.06	0.17	0.28	0.33	0.47
TKN as N	60	3	N/A				0.2	0.27	0.47	0.68	0.86	0.96	1.31
Total Phosphorus	60	0	N/A				0.04	0.08	0.11	0.14	0.17	0.26	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	366.3	22	36.7	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:** 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:** 01/13/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	122	0	<4	1	0.8		3.6	5.4	5.9	6.9	8.8	10.7	12.4
pH (SU)	122	0	<5	3	2.5		3.6	5.4	5.9	6.9	8.8	10.7	12.4
	123	0	<6	0	0		6.1	6.6	6.9	7.2	7.3	7.4	7.7
Salinity (ppt)	123	0	>9	0	0		6.1	6.6	6.9	7.2	7.3	7.4	7.7
	2	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	123	0	N/A				59	134	198	312	452	514	609
Water Temperature (°C)	124	0	>32	0	0		3.7	7	10	18	23.4	25.5	27.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		23	32	41	46	50	54	57
TSS (mg/L)	123	25	N/A				6.2	6.2	7.2	18	30	50.2	349
Turbidity (NTU)	57	0	>50	5	8.8		1.9	4.7	9	20	33.5	52	150
<b>Nutrients (mg/L)</b>													
NH3 as N	124	9	N/A				0.02	0.02	0.03	0.05	0.08	0.12	0.64
NO2 + NO3 as N	124	0	>10	1	0.8		0.17	0.51	1.02	3	5.4	7.75	12
TKN as N	123	0	N/A				0.48	0.7	0.84	0.96	1.1	1.2	1.8
Total Phosphorus	124	0	N/A				0.05	0.08	0.12	0.18	0.25	0.45	1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	130	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:** 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:** 01/07/2010 to 12/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		4	5.4	6	6.6	7.4	9.4	11.9
pH (SU)	85	0	<5	2	2.4		4	5.4	6	6.6	7.4	9.4	11.9
	85	0	<6	4	4.7		4.8	6.5	6.8	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.8	6.5	6.8	7	7.1	7.2	7.3
Water Temperature (°C)	85	0	N/A				74	151	203	328	481	518	593
	85	0	>32	0	0		4.1	8.5	13.4	21.2	24.2	26	28.4
<b>Other</b>													
TSS (mg/L)	60	3	N/A				2.5	3.1	8	14.5	25.8	41.6	109
Turbidity (NTU)	60	0	>50	3	5		1.9	4.9	8.6	18.6	31.2	47.5	112
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.05	0.08	0.13	0.5
NO2 + NO3 as N	60	0	>10	8	13.3	75.1	0.22	0.5	1.2	2.84	7.08	10.3	12.4
TKN as N	60	4	N/A				0.2	0.27	0.63	0.82	1.12	1.31	1.64
Total Phosphorus	60	0	N/A				0.06	0.07	0.12	0.17	0.23	0.36	1.25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	188.2	12	20										

**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)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/07/2010 to 12/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	42	49.4	> 99.9	0.4	1.7	2.4	4.1	6.2	8.8	10.9
pH (SU)	85	0	<5	56	65.9	> 99.9	0.4	1.7	2.4	4.1	6.2	8.8	10.9
	85	0	<6	4	4.7		5.5	6.2	6.5	6.8	6.9	7	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.5	6.2	6.5	6.8	6.9	7	7.2
Water Temperature (°C)	85	0	N/A				71	119	146	175	210	248	437
	85	0	>32	0	0		1.8	6.1	12	18.6	23.4	25.7	26.9
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2.5	6.1	10	15	27	39.4	55
Turbidity (NTU)	60	0	>50	7	11.7	60.5	4.2	12.1	17.5	24.7	36.5	57.2	83.6
<b>Nutrients (mg/L)</b>													
NH3 as N	60	22	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	0.06	0.1	0.13	0.49
TKN as N	60	1	N/A				0.2	0.33	0.48	0.72	0.86	1.04	1.21
Total Phosphorus	60	1	N/A				0.02	0.04	0.06	0.07	0.1	0.16	0.61
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	158	16	26.7	86.9									

**Key:**

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# ND: number of observations reported to be below detection level (non-detect)  
EL: Evaluation Level; applicable numeric or narrative water quality standard or action level  
Results not meeting EL: number and percentages of observations not meeting evaluation level  
%Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)  
Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/13/2010 to 12/22/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	122	0	<4	1	0.8		3.6	5.1	5.5	6.5	8.7	9.8	11.8
	122	0	<5	9	7.4		3.6	5.1	5.5	6.5	8.7	9.8	11.8
pH (SU)	123	0	<6	0	0		6.4	6.7	7.1	7.4	7.5	7.6	7.8
	123	0	>9	0	0		6.4	6.7	7.1	7.4	7.5	7.6	7.8
Salinity (ppt)	2	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	123	0	N/A				80	213	337	484	582	627	996
Water Temperature (°C)	124	0	>32	0	0		4.2	9.2	12.4	17.9	23.4	25.1	26.5
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		35	38	56	66	71	77	80
TSS (mg/L)	122	51	N/A				6.2	6.2	7.7	12	19	46	558
Turbidity (NTU)	57	0	>50	5	8.8		3.4	5.1	7.8	12	29	51	90
<b>Nutrients (mg/L)</b>													
NH3 as N	124	17	N/A				0.02	0.02	0.02	0.04	0.06	0.11	1.4
NO2 + NO3 as N	124	0	>10	0	0		0.1	0.28	0.67	1.4	2.5	3.15	4.9
TKN as N	124	1	N/A				0.2	0.72	0.8	0.88	0.99	1.1	2.6
Total Phosphorus	124	0	N/A				0.04	0.07	0.1	0.16	0.29	0.46	1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	175.3	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:** 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:** 01/07/2010 to 12/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.1	5.9	6.4	6.9	8	9.4	11
pH (SU)	85	0	<5	1	1.2		4.1	5.9	6.4	6.9	8	9.4	11
	85	0	<6	1	1.2		5.7	6.8	7.1	7.2	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.7	6.8	7.1	7.2	7.4	7.6	7.9
Water Temperature (°C)	85	0	N/A				116	211	324	463	575	608	640
	85	0	>32	0	0		4.7	8.5	14.4	20.9	24	26.2	27.4
<b>Other</b>													
TSS (mg/L)	60	4	N/A				2.5	3	7	16	30.2	52.9	294
Turbidity (NTU)	60	0	>50	7	11.7	60.5	2.4	5.2	9.1	19.6	32	54.4	181
<b>Nutrients (mg/L)</b>													
NH3 as N	60	24	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.19
NO2 + NO3 as N	60	0	>10	0	0		0.16	0.21	0.44	1.16	1.75	3.48	5.17
TKN as N	60	1	N/A				0.2	0.51	0.72	0.9	1.11	1.24	1.3
Total Phosphorus	60	0	N/A				0.02	0.05	0.1	0.15	0.22	0.34	0.95
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	233.2	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:** 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:** 01/07/2010 to 12/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.6	6.3	6.9	7.6	8.9	10.7	12.2
pH (SU)	85	0	<5	1	1.2		4.6	6.3	6.9	7.6	8.9	10.7	12.2
	85	0	<6	1	1.2		5.6	6.6	6.8	7	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.6	6.6	6.8	7	7.2	7.3	7.5
Water Temperature (°C)	85	0	N/A				63	111	134	183	254	362	706
	85	0	>32	0	0		2.6	7.5	11.6	18.4	23	25	27.6
<b>Other</b>													
TSS (mg/L)	60	27	N/A				1	2.5	2.5	2.8	6.8	21.3	200
Turbidity (NTU)	60	0	>50	2	3.3		1.2	1.9	2.5	5	10	26.3	130
<b>Nutrients (mg/L)</b>													
NH3 as N	60	41	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.12
NO2 + NO3 as N	60	0	>10	0	0		0.05	0.21	0.31	0.53	1	2.25	7.6
TKN as N	60	9	N/A				0.2	0.2	0.28	0.4	0.63	0.79	2.54
Total Phosphorus	60	2	N/A				0.02	0.02	0.04	0.06	0.1	0.16	0.59
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	197.6	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:** 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:** 01/13/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	122	0	<4	0	0		5	5.6	6.2	7.2	9.6	11.1	13
	122	0	<5	0	0		5	5.6	6.2	7.2	9.6	11.1	13
pH (SU)	123	0	<6	0	0		6.1	6.9	7.1	7.3	7.4	7.6	8
	123	0	>9	0	0		6.1	6.9	7.1	7.3	7.4	7.6	8
Salinity (ppt)	2	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	123	0	N/A				88	187	300	410	506	577	750
Water Temperature (°C)	124	0	>32	0	0		2.1	6.4	9.7	17.3	23.3	25.3	27.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		41	41	44	50	54	60	61
TSS (mg/L)	123	58	N/A				6.2	6.2	6.2	8	22	37.2	81
Turbidity (NTU)	57	0	>50	0	0		2.8	4.1	5.4	8	19.5	28.4	50
<b>Nutrients (mg/L)</b>													
NH3 as N	124	10	N/A				0.02	0.02	0.02	0.05	0.07	0.1	0.63
NO2 + NO3 as N	124	0	>10	0	0		0.6	1.45	2.4	3.4	4.58	5.6	10
TKN as N	124	0	N/A				0.46	0.62	0.71	0.78	0.88	0.98	1.6
Total Phosphorus	124	0	N/A				0.04	0.07	0.1	0.15	0.22	0.34	0.74
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	151	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:** 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:** 01/07/2010 to 12/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	85	0	<4	0	0		5.4	5.7	6.3	6.8	7.8	11.2
pH (SU)	85	0	<5	0	0		5.4	5.7	6.3	6.8	7.8	11.2
	85	0	<6	1	1.2		6	6.8	7	7.2	7.3	7.6
	85	0	>9	0	0		6	6.8	7	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				104	201	327	442	538	708
Water Temperature (°C)	85	0	>32	0	0		3.3	8.2	13.6	20	23.4	27.1
<b>Other</b>												
TSS (mg/L)	60	16	N/A				2	2.5	2.5	7	20	124
Turbidity (NTU)	60	0	>50	1	1.7		1.5	3.2	4.8	9	16	78.8
<b>Nutrients (mg/L)</b>												
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.03	0.07	0.29
NO2 + NO3 as N	60	0	>10	1	1.7		0.28	1.36	2.51	3.76	5.28	10.1
TKN as N	60	8	N/A				0.2	0.2	0.36	0.62	0.86	2.07
Total Phosphorus	60	0	N/A				0.05	0.07	0.09	0.13	0.2	0.76
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
60	173.4	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:** 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:** 03/08/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	32	0	<4	0	0		4.5	5.8	6.8	8.2	11.4	13.6	14
pH (SU)	32	0	<5	1	3.1		4.5	5.8	6.8	8.2	11.4	13.6	14
	33	0	<6	0	0		6.8	7	7.1	7.2	7.4	7.7	7.7
Salinity (ppt)	33	0	>9	0	0		6.8	7	7.1	7.2	7.4	7.7	7.7
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				103	117	139	172	211	224	244
Water Temperature (°C)	33	0	>32	0	0		6.8	7.6	10	20.6	26	27.3	28.1
<b>Other</b>													
Chloride (mg/L)	3	0	>230	0	0		25	25	25	27	27	27	27
Fluoride (mg/L)	3	3	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	20	0	>100	0	0		22	30	32	35	37	39	76
Sulfate (mg/L)	3	0	>250	0	0		19	19	19	19	20	20	20
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	6.9	9.6	11.8	19
Turbidity (NTU)	32	0	>50	0	0		3.6	4.1	5	7.1	14	22.1	50

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
32	8.6	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.6	5.1	5.7	6.7	8.7	11.4	13.2
pH (SU)	85	0	<5	4	4.7		3.6	5.1	5.7	6.7	8.7	11.4	13.2
	85	0	<6	1	1.2		6	6.5	6.8	7	7.1	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6	6.5	6.8	7	7.1	7.3	7.7
Water Temperature (°C)	85	0	N/A				114	133	152	173	200	232	316
	85	0	>32	0	0		4.2	8.1	13.2	22.7	26.8	28	30
<b>Other</b>													
TSS (mg/L)	60	0	N/A				4	5	6	7	10	12	19
Turbidity (NTU)	60	0	>50	0	0		2.9	4.4	5.5	7.1	10	15.7	26.3
<b>Nutrients (mg/L)</b>													
NH3 as N	60	6	N/A				0.02	0.02	0.05	0.09	0.14	0.18	0.29
NO2 + NO3 as N	60	0	>10	0	0		0.04	0.08	0.21	0.44	0.62	0.84	1.12
TKN as N	60	1	N/A				0.2	0.47	0.57	0.72	0.84	1	1.07
Total Phosphorus	60	2	N/A				0.02	0.02	0.04	0.06	0.06	0.07	0.34
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	15.2	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:** 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:** 01/12/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		5.8	7.2	7.9	9	10.4	11.6	14.9
pH (SU)	55	0	<5	0	0		5.8	7.2	7.9	9	10.4	11.6	14.9
	55	0	<6	0	0		6.8	7	7.1	7.3	7.4	7.5	7.8
	55	0	>9	0	0		6.8	7	7.1	7.3	7.4	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				53	79	89	98	104	114	276
Water Temperature (°C)	55	0	>32	0	0		2.9	6.6	10.5	15.4	20.5	22.5	25.1
<b>Other</b>													
Chlorophyll a (ug/L)	50	20	>40	0	0		1	1	1	1	3	4	16
Hardness (mg/L)	19	0	>100	0	0		20	24	29	30	32	32	34
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	6.2	29	46	144
Turbidity (NTU)	56	0	>50	6	10.7	50.6	2.8	3.9	5.5	9.2	20.5	56.5	240
<b>Nutrients (mg/L)</b>													
NH3 as N	56	22	N/A				0.02	0.02	0.02	0.02	0.03	0.03	0.05
NO2 + NO3 as N	56	0	>10	0	0		0.23	0.36	0.44	0.56	0.63	0.68	0.74
TKN as N	56	18	N/A				0.2	0.2	0.2	0.22	0.3	0.44	0.99
Total Phosphorus	56	0	N/A				0.02	0.02	0.02	0.03	0.05	0.12	0.33
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	222.6	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:** 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:** 01/12/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		5.6	6.7	7.3	8	11.6	13.2	15.8
pH (SU)	54	0	<5	0	0		5.6	6.7	7.3	8	11.6	13.2	15.8
	55	0	<6	0	0		7	7.3	7.4	7.5	7.7	7.8	8.2
	55	0	>9	0	0		7	7.3	7.4	7.5	7.7	7.8	8.2
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				52	80	98	142	162	291	668
Water Temperature (°C)	55	0	>32	0	0		2.8	5.9	10.5	17.3	22.2	25	27.1
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		20	25	37	49	51	53	61
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	6.2	12	72	126
Turbidity (NTU)	55	0	>50	3	5.5		1.8	3.6	4.6	8.7	17	27.8	140
<b>Nutrients (mg/L)</b>													
NH3 as N	56	22	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.4
NO2 + NO3 as N	56	0	>10	0	0		0.05	0.12	0.18	0.22	0.32	0.37	0.44
TKN as N	56	2	N/A				0.2	0.21	0.29	0.36	0.5	0.58	1.8
Total Phosphorus	56	0	N/A				0.02	0.03	0.03	0.04	0.06	0.08	0.21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	137.9	10	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:** 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:** 01/29/2010 to 12/12/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	2	2.4		1.5	5.4	6.3	7.7	9.5	11.1	12
pH (SU)	85	0	<5	7	8.2		1.5	5.4	6.3	7.7	9.5	11.1	12
	85	0	<6	0	0		6	6.6	6.8	7	7.3	7.6	8.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6	6.6	6.8	7	7.3	7.6	8.5
Water Temperature (°C)	85	0	N/A				67	93	104	131	157	202	302
	85	0	>32	0	0		2.3	6.4	10.8	22	26.4	28.1	30.9
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2.5	4	6	8.5	11.8	18.9	331
Turbidity (NTU)	60	0	>50	1	1.7		2.1	4	6.3	8.6	16.3	31.1	72.8
<b>Nutrients (mg/L)</b>													
NH3 as N	60	44	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.14
NO2 + NO3 as N	60	11	>10	0	0		0.02	0.02	0.04	0.1	0.2	0.27	0.39
TKN as N	60	5	N/A				0.2	0.21	0.44	0.6	0.71	0.96	1.42
Total Phosphorus	60	2	N/A				0.02	0.02	0.04	0.05	0.07	0.1	0.4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	65.6	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:** 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:** 01/29/2010 to 12/12/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.5	6.4	7.1	8.1	10.2	11.6	12.8
pH (SU)	85	0	<5	0	0		5.5	6.4	7.1	8.1	10.2	11.6	12.8
	85	0	<6	0	0		6.1	6.6	6.8	7.1	7.2	7.4	7.6
	85	0	>9	0	0		6.1	6.6	6.8	7.1	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				57	96	136	186	212	229	938
Water Temperature (°C)	85	0	>32	0	0		0.5	5.1	9.1	20	24	25.9	29.8
<b>Other</b>													
TSS (mg/L)	60	22	N/A				1	2.5	2.5	3	8	23.2	184
Turbidity (NTU)	60	0	>50	4	6.7		1.3	2	2.9	7.3	24	43.3	96
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.02	0.05	0.07	0.1	0.17	0.2	1.82
NO2 + NO3 as N	60	0	>10	0	0		0.11	0.29	0.35	0.43	0.55	0.64	0.84
TKN as N	60	6	N/A				0.16	0.2	0.32	0.48	0.7	0.84	3.53
Total Phosphorus	60	9	N/A				0.02	0.02	0.02	0.04	0.07	0.2	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	342.3	22	36.7	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:** 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:** 01/29/2010 to 04/01/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	4	0	<4	0	0		9.3	9.3	9.6	10.8	11.2	11.2
pH (SU)	4	0	<5	0	0		9.3	9.3	9.6	10.8	11.2	11.2
	4	0	<6	0	0		6.1	6.1	6.1	6.3	7.5	7.8
	4	0	>9	0	0		6.1	6.1	6.1	6.3	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	4	0	N/A				97	97	109	148	183	193
Water Temperature (°C)	4	0	>32	0	0		4.3	4.3	4.8	7.3	14.4	16.4
<b>Other</b>												
TSS (mg/L)	4	0	N/A				10	10	12.5	20.5	30.8	34
Turbidity (NTU)	4	0	>25	3	75		24.2	24.2	24.6	34.1	66.8	74.9
<b>Nutrients (mg/L)</b>												
NH3 as N	4	1	N/A				0.02	0.02	0.03	0.08	0.1	0.11
NO2 + NO3 as N	4	0	>10	0	0		0.17	0.17	0.2	0.28	0.37	0.4
TKN as N	4	0	N/A				0.52	0.52	0.55	0.66	0.7	0.71
Total Phosphorus	4	0	N/A				0.06	0.06	0.14	0.4	0.52	0.56
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
4	59.3	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:** 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 12/12/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	<4	1	1.9		3.5	5.7	6.4	8	10.6	11.8	12.4
	52	0	<5	2	3.8		3.5	5.7	6.4	8	10.6	11.8	12.4
pH (SU)	52	0	<6	1	1.9		5.7	6.4	6.7	7	7.1	7.3	7.3
	52	0	>9	0	0		5.7	6.4	6.7	7	7.1	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				48	91	116	157	184	199	550
Water Temperature (°C)	52	0	>32	0	0		0.4	3	7.2	13.9	20.9	23	24.1
<b>Other</b>													
TSS (mg/L)	52	20	N/A				2	2.5	2.5	4	8	27.3	157
Turbidity (NTU)	52	0	>50	5	9.6		1.3	2.6	3.4	6.6	20.2	52.6	150
<b>Nutrients (mg/L)</b>													
NH3 as N	52	20	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.14
NO2 + NO3 as N	52	0	>10	0	0		0.05	0.14	0.21	0.36	0.46	0.54	0.65
TKN as N	52	13	N/A				0.19	0.2	0.2	0.44	0.62	0.79	1.22
Total Phosphorus	52	0	N/A				0.03	0.05	0.06	0.08	0.11	0.14	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	304.1	19	36.5	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:** 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:** 01/29/2010 to 10/24/2012

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	8	0	<4	0	0		5.5	5.5	6.2	8.4	10.8	11.8
pH (SU)	8	0	<5	0	0		5.5	5.5	6.2	8.4	10.8	11.8
	8	0	<6	0	0		6.2	6.2	6.3	6.7	7.2	7.5
	8	0	>9	0	0		6.2	6.2	6.3	6.7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	8	0	N/A				80	80	100	123	167	176
Water Temperature (°C)	8	0	>32	0	0		3.6	3.6	4.6	13.6	23.4	24.2
<b>Other</b>												
TSS (mg/L)	8	1	N/A				1	1	2.9	4	12	24
Turbidity (NTU)	8	0	>50	0	0		2.2	2.2	5.1	17.5	29.9	47.1
<b>Nutrients (mg/L)</b>												
NH3 as N	8	5	N/A				0.02	0.02	0.02	0.02	0.04	0.04
NO2 + NO3 as N	8	0	>10	0	0		0.2	0.2	0.26	0.34	0.48	0.5
TKN as N	8	0	N/A				0.3	0.3	0.36	0.48	0.53	0.91
Total Phosphorus	8	0	N/A				0.04	0.04	0.05	0.08	0.26	0.36
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
8	293.6	2	25									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/29/2010 to 12/12/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6	7	7.5	8.2	9.7	10.9	12.4
pH (SU)	85	0	<5	0	0		6	7	7.5	8.2	9.7	10.9	12.4
	85	0	<6	0	0		6.2	6.7	6.9	7.1	7.2	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.2	6.7	6.9	7.1	7.2	7.4	7.5
Water Temperature (°C)	85	0	N/A				94	158	167	179	198	217	247
	85	0	>32	0	0		3.6	7.2	11.6	17.3	22.6	25.1	26.8
<b>Other</b>													
TSS (mg/L)	60	11	N/A				2	2.5	3	4	7	9	15
Turbidity (NTU)	60	0	>50	0	0		2.3	3.2	3.9	5.6	7.3	9.7	21.4
<b>Nutrients (mg/L)</b>													
NH3 as N	60	22	N/A				0.02	0.02	0.02	0.05	0.16	0.34	0.43
NO2 + NO3 as N	60	0	N/A				0.03	0.04	0.1	0.2	0.35	0.52	0.66
TKN as N	60	3	N/A				0.2	0.28	0.45	0.62	0.77	0.85	1.06
Total Phosphorus	60	8	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.42

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	40.5	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:** 01/08/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.1	7.1	7.6	8.4	9.9	11	12.6
pH (SU)	85	0	<5	0	0		6.1	7.1	7.6	8.4	9.9	11	12.6
	85	0	<6	0	0		6.4	6.7	7	7.2	7.3	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.7	7	7.2	7.3	7.5	7.6
Water Temperature (°C)	85	0	N/A				75	141	164	176	205	237	298
	85	0	>32	0	0		3.1	7.8	11.8	20.5	23.8	26.5	29.6
<b>Other</b>													
TSS (mg/L)	60	9	N/A				2.5	2.5	3	5	7.8	15.7	160
Turbidity (NTU)	60	0	>50	1	1.7		2.2	3.6	4.9	7.2	10.4	17.4	117
<b>Nutrients (mg/L)</b>													
NH3 as N	60	10	N/A				0.02	0.02	0.02	0.06	0.1	0.22	0.4
NO2 + NO3 as N	60	0	N/A				0.03	0.11	0.18	0.28	0.42	0.54	0.77
TKN as N	60	4	N/A				0.2	0.27	0.41	0.58	0.73	0.95	1.53
Total Phosphorus	60	0	N/A				0.03	0.03	0.06	0.08	0.12	0.17	0.43
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	82.8	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:** 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:** 01/08/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		6	6.8	7.6	8.6	10.2	11.7	12.9
pH (SU)	60	0	<5	0	0		6	6.8	7.6	8.6	10.2	11.7	12.9
	60	0	<6	1	1.7		5.3	6.4	6.8	7	7.2	7.4	8
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		5.3	6.4	6.8	7	7.2	7.4	8
	60	0	N/A				51	73	97	117	129	142	278
Water Temperature (°C)	60	0	>32	0	0		1.8	5.7	8.7	17.1	23.4	26.3	28.6
<b>Other</b>													
TSS (mg/L)	60	12	N/A				2	2.5	3	5	6	15	243
Turbidity (NTU)	60	0	>50	4	6.7		2.8	4.5	6.1	10.5	18.7	29.1	148
<b>Nutrients (mg/L)</b>													
NH3 as N	60	46	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.18
NO2 + NO3 as N	60	4	N/A				0.02	0.02	0.06	0.11	0.23	0.32	0.54
TKN as N	60	7	N/A				0.2	0.2	0.31	0.49	0.6	0.77	3.19
Total Phosphorus	60	1	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	211.2	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:** 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:** 01/21/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	49	0	<4	0	0		6.5	6.8	7.2	8.3	10.1	11.2	12
pH (SU)	49	0	<5	0	0		6.5	6.8	7.2	8.3	10.1	11.2	12
	49	0	<6	0	0		7.2	7.4	7.5	7.7	7.8	8.1	8.2
	49	0	>9	0	0		7.2	7.4	7.5	7.7	7.8	8.1	8.2
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				228	409	560	840	1215	1363	1592
Water Temperature (°C)	50	0	>32	0	0		7.1	10.5	13.6	19.6	26.1	27.6	29.3
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				40	48	57	88	150	210	250
TSS (mg/L)	19	10	N/A				6.2	6.2	6.2	9.2	13	39	128
Turbidity (NTU)	48	0	>50	3	6.2		1.3	1.8	2.3	4	16.5	26.5	160
<b>Nutrients (mg/L)</b>													
NH3 as N	49	1	N/A				0.02	0.02	0.04	0.05	0.09	1.7	4.3
NO2 + NO3 as N	49	0	N/A				0.69	2.6	5.8	9.8	18	22	29
TKN as N	49	0	N/A				0.79	0.89	1.1	1.2	1.4	3	8
Total Phosphorus	49	0	N/A				0.06	0.1	0.16	0.49	0.79	1.2	1.7
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
50	163.5	9	18										

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/08/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.4	6.3	7.2	8.2	10	11.1	12.5
pH (SU)	85	0	<5	0	0		5.4	6.3	7.2	8.2	10	11.1	12.5
	85	0	<6	0	0		6.1	6.8	7	7.2	7.4	8	8.7
	85	0	>9	0	0		6.1	6.8	7	7.2	7.4	8	8.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				78	153	187	229	287	390	590
Water Temperature (°C)	85	0	>32	0	0		3.3	8.3	11.8	21.4	26	27.8	29.7
<b>Other</b>													
TSS (mg/L)	60	5	N/A				2.5	3	4	7	11.8	17	128
Turbidity (NTU)	60	0	>50	1	1.7		2.7	4.2	5.6	7.8	11.8	18.4	97.7
<b>Nutrients (mg/L)</b>													
NH3 as N	60	24	N/A				0.02	0.02	0.02	0.04	0.08	0.14	0.19
NO2 + NO3 as N	60	0	N/A				0.15	0.19	0.36	0.86	1.32	2.19	6.66
TKN as N	60	1	N/A				0.2	0.33	0.52	0.74	0.86	0.94	1.18
Total Phosphorus	60	0	N/A				0.02	0.05	0.07	0.11	0.16	0.22	0.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	98.6	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:** 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:** 01/08/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.8	6.4	6.9	7.6	10	11.1	12.9
pH (SU)	85	0	<5	0	0		5.8	6.4	6.9	7.6	10	11.1	12.9
	85	0	<6	1	1.2		6	6.7	7	7.2	7.4	7.5	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6	6.7	7	7.2	7.4	7.5	7.7
Water Temperature (°C)	85	0	N/A				95	137	167	201	274	319	383
	85	0	>32	0	0		3.2	7.9	12	21.8	26.2	29.1	31.5
<b>Other</b>													
TSS (mg/L)	60	15	N/A				2	2.5	2.5	4	7	12	298
Turbidity (NTU)	60	0	>50	1	1.7		2.1	2.7	3.5	5.5	11.4	17.7	242
<b>Nutrients (mg/L)</b>													
NH3 as N	60	24	N/A				0.02	0.02	0.02	0.02	0.05	0.07	0.16
NO2 + NO3 as N	60	0	N/A				0.2	0.32	0.44	0.8	1.04	1.96	2.97
TKN as N	60	5	N/A				0.2	0.27	0.44	0.57	0.73	0.89	1.36
Total Phosphorus	60	0	N/A				0.02	0.06	0.07	0.08	0.1	0.13	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	64.2	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:** 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:** 01/08/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.6	6	6.6	7.4	9.6	10.7	13.3
pH (SU)	85	0	<5	0	0		5.6	6	6.6	7.4	9.6	10.7	13.3
	85	0	<6	0	0		6	6.7	6.9	7.1	7.3	7.5	8.2
	85	0	>9	0	0		6	6.7	6.9	7.1	7.3	7.5	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				100	125	164	191	262	310	399
Water Temperature (°C)	85	0	>32	0	0		2.6	8.2	12.1	21.3	25.2	28	29.6
<b>Other</b>													
TSS (mg/L)	60	23	N/A				2	2.5	2.5	4	8	12.8	280
Turbidity (NTU)	60	0	>50	2	3.3		1.8	2.2	3.2	6	10.8	18.7	260
<b>Nutrients (mg/L)</b>													
NH3 as N	60	33	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.17
NO2 + NO3 as N	60	0	N/A				0.24	0.39	0.54	0.8	0.96	1.69	2.62
TKN as N	60	4	N/A				0.2	0.25	0.42	0.58	0.72	0.88	1.54
Total Phosphorus	60	0	N/A				0.04	0.05	0.07	0.08	0.1	0.14	0.62
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	87.2	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:** 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:** 01/26/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	21	0	<4	0	0		6.5	6.8	8	11.2	12.8	13.3	13.6
pH (SU)	22	0	<5	0	0		6.5	6.8	8	11.2	12.8	13.3	13.6
	22	0	<6	1	4.5		5.8	6.2	6.6	7.3	7.6	8	8.5
	22	0	>9	0	0		5.8	6.2	6.6	7.3	7.6	8	8.5
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				62	91	113	154	230	264	328
Water Temperature (°C)	22	0	>32	0	0		3.7	6.1	7.4	10.6	24.1	27	29
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				16	18	24	34	40	47	50
TSS (mg/L)	19	16	N/A				6.2	6.2	6.2	6.2	7.1	32	87
Turbidity (NTU)	53	0	>50	2	3.8		1.4	1.8	2.6	4.9	10	29	190
<b>Nutrients (mg/L)</b>													
NH3 as N	52	25	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.12
NO2 + NO3 as N	52	2	N/A				0.02	0.05	0.19	0.52	0.62	0.73	1.2
TKN as N	52	0	N/A				0.27	0.39	0.47	0.54	0.7	0.81	1.5
Total Phosphorus	52	0	N/A				0.02	0.04	0.06	0.08	0.12	0.17	0.49
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	83.5	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:** 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:** 01/08/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	4	4.7		2.3	4.7	5.7	6.4	8	10.3	11.9
pH (SU)	85	0	<5	13	15.3	92	2.3	4.7	5.7	6.4	8	10.3	11.9
	85	0	<6	3	3.5		5.6	6.3	6.6	6.8	7	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.6	6.3	6.6	6.8	7	7.1	7.4
Water Temperature (°C)	85	0	N/A				62	116	154	209	268	302	380
	85	0	>32	0	0		1.3	6	11.5	18.2	21.2	23.3	25.5
<b>Other</b>													
TSS (mg/L)	60	15	N/A				2.5	2.5	2.6	4	6	11.8	167
Turbidity (NTU)	60	1	>50	4	6.7		0.9	2.8	3.8	6.8	13.3	25.3	136
<b>Nutrients (mg/L)</b>													
NH3 as N	60	33	N/A				0.02	0.02	0.02	0.02	0.05	0.08	0.61
NO2 + NO3 as N	60	0	>10	2	3.3		0.19	0.64	1.14	2.37	4.11	6.66	12.7
TKN as N	60	4	N/A				0.2	0.32	0.47	0.77	1.07	1.58	3.42
Total Phosphorus	60	0	N/A				0.16	0.32	0.45	0.73	1.28	1.75	3.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	874.5	39	65	> 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:** 01/26/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	<4	1	4.5		2.7	4.4	6	9.6	11.5	13	13.7
	22	0	<5	3	13.6	61.9	2.7	4.4	6	9.6	11.5	13	13.7
pH (SU)	23	0	<6	1	4.3		5.2	6	6.4	6.8	7	7.3	7.4
	23	0	>9	0	0		5.2	6	6.4	6.8	7	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				48	53	62	73	81	83	94
Water Temperature (°C)	23	0	>32	0	0		3.1	5.5	7.7	9.8	21.5	24.3	26.4
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				12	15	19	21	24	26	28
TSS (mg/L)	18	15	N/A				6.2	6.2	6.2	6.2	8.3	12	12
Turbidity (NTU)	52	0	>50	0	0		1.6	2.9	4	5	9.6	20.8	35
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	72	7	13.7										

**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 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:** 01/08/2010 to 04/16/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	4	0	<4	0	0		10.3	10.3	10.4	10.9	12.3	12.7
pH (SU)	4	0	<5	0	0		10.3	10.3	10.4	10.9	12.3	12.7
	4	0	<6	0	0		6.5	6.5	6.5	6.9	7.2	7.3
	4	0	>9	0	0		6.5	6.5	6.5	6.9	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	4	0	N/A				107	107	107	113	134	140
Water Temperature (°C)	4	0	>32	0	0		2.1	2.1	3.6	10.2	16.7	18.3
<b>Other</b>												
TSS (mg/L)	4	0	N/A				1	1	1.5	3	6.8	8
Turbidity (NTU)	4	0	>50	0	0		3.7	3.7	4.9	9.4	13.6	14.7
<b>Nutrients (mg/L)</b>												
NH3 as N	4	2	N/A				0.02	0.02	0.02	0.02	0.07	0.08
NO2 + NO3 as N	4	0	N/A				0.38	0.38	0.42	0.7	0.95	0.98
TKN as N	4	0	N/A				0.26	0.26	0.3	0.44	0.49	0.5
Total Phosphorus	4	0	N/A				0.03	0.03	0.04	0.06	0.34	0.42
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
4	121.6	1	25									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 03/08/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	32	0	<4	0	0		5.8	6.4	6.8	8.8	11.6	12.3	14.2
pH (SU)	32	0	<5	0	0		5.8	6.4	6.8	8.8	11.6	12.3	14.2
	33	0	<6	0	0		6.2	6.9	7.1	7.3	7.5	7.8	7.8
	33	0	>9	0	0		6.2	6.9	7.1	7.3	7.5	7.8	7.8
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				92	99	107	149	185	258	284
Water Temperature (°C)	33	0	>32	0	0		1.3	7.4	9.4	17.9	25.2	28.1	30.9
<b>Other</b>													
Chlorophyll a (ug/L)	32	12	>40	0	0		1	1	1	1	4	9	33
Hardness (mg/L)	20	0	>100	0	0		13	28	30	34	39	44	48
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	16	39.9	120
Turbidity (NTU)	32	0	>50	3	9.4		1.3	1.8	2.2	7.6	18.2	48.4	95
<b>Nutrients (mg/L)</b>													
NH3 as N	32	15	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.14
NO2 + NO3 as N	32	4	>10	0	0		0.02	0.02	0.1	0.42	0.66	0.77	0.84
TKN as N	32	0	N/A				0.35	0.4	0.43	0.5	0.68	0.77	1.1
Total Phosphorus	32	0	N/A				0.03	0.03	0.06	0.08	0.12	0.19	0.26
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400: %Conf:</b>										
32	56.6	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 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.3	4.5	5.2	6	8.8	10.9	14
pH (SU)	85	0	<5	18	21.2	99.8	3.3	4.5	5.2	6	8.8	10.9	14
	85	0	<6	2	2.4		5.8	6.4	6.6	6.8	7	7.2	8.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.8	6.4	6.6	6.8	7	7.2	8.4
Water Temperature (°C)	85	0	N/A				60	90	120	155	182	207	293
	85	0	>32	0	0		0.4	6.7	11.4	22.6	26.3	28.9	30.9
<b>Other</b>													
TSS (mg/L)	60	14	N/A				1	2.5	2.6	4	7	34.8	180
Turbidity (NTU)	60	0	>50	4	6.7		1.8	2.6	3.8	6.5	10.5	43	218
<b>Nutrients (mg/L)</b>													
NH3 as N	55	30	N/A				0.02	0.02	0.02	0.02	0.05	0.13	0.47
NO2 + NO3 as N	55	3	N/A				0.02	0.04	0.18	0.35	0.61	0.98	1.54
TKN as N	55	4	N/A				0.2	0.25	0.4	0.56	0.69	1.05	1.59
Total Phosphorus	56	3	N/A				0.02	0.03	0.06	0.08	0.1	0.17	0.81
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	55.9	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	3	3.5		3	4.5	5	6	8.4	10.4	13.5
pH (SU)	85	0	<5	20	23.5	> 99.9	3	4.5	5	6	8.4	10.4	13.5
	85	0	<6	1	1.2		5.6	6.4	6.6	6.8	7	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.6	6.4	6.6	6.8	7	7.2	7.6
	85	0	N/A				61	96	130	177	220	259	342
Water Temperature (°C)	85	0	>32	0	0		0.6	6.5	11.5	22.5	26.5	28.9	31.1
<b>Other</b>													
TSS (mg/L)	60	7	N/A				2.5	2.5	4	5	8.8	45	234
Turbidity (NTU)	60	0	>50	4	6.7		2	4.2	5.4	8.6	13.6	44.5	262
<b>Nutrients (mg/L)</b>													
NH3 as N	60	21	N/A				0.02	0.02	0.02	0.04	0.06	0.16	0.29
NO2 + NO3 as N	60	0	N/A				0.31	0.59	0.8	0.97	1.45	2.04	3.02
TKN as N	60	3	N/A				0.2	0.32	0.5	0.64	0.8	1.21	1.63
Total Phosphorus	60	0	N/A				0.06	0.11	0.14	0.27	0.42	0.63	1.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	67.1	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	9	10.6	51.8	1.9	3.9	6	7	9.4	11.1	12.9
pH (SU)	85	0	<5	11	12.9	77.1	1.9	3.9	6	7	9.4	11.1	12.9
	85	0	<6	1	1.2		6	6.4	6.8	7	7.2	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6	6.4	6.8	7	7.2	7.2	7.6
	85	0	N/A				88	124	152	172	202	255	333
Water Temperature (°C)	85	0	>32	0	0		1.2	5.9	11.7	18.9	22.4	24.5	25.6
<b>Other</b>													
TSS (mg/L)	60	25	N/A				2	2.5	2.5	3	4.8	16.1	46
Turbidity (NTU)	60	0	>50	1	1.7		1.4	1.8	3.1	6.3	11.6	33.4	74.2
<b>Nutrients (mg/L)</b>													
NH3 as N	60	28	N/A				0.02	0.02	0.02	0.02	0.05	0.32	1.8
NO2 + NO3 as N	60	1	N/A				0.02	0.08	0.27	0.55	0.68	1.17	4.78
TKN as N	60	11	N/A				0.2	0.2	0.26	0.44	0.67	1.16	1.92
Total Phosphorus	60	4	N/A				0.02	0.02	0.04	0.06	0.08	0.13	0.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	134.8	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		2.6	6.8	7.2	7.7	9.8	11.4	13.3
pH (SU)	85	0	<5	1	1.2		2.6	6.8	7.2	7.7	9.8	11.4	13.3
	85	0	<6	0	0		6.5	7.2	7.5	7.6	7.8	7.9	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	7.2	7.5	7.6	7.8	7.9	8.1
Water Temperature (°C)	85	0	N/A				167	355	476	660	780	982	1156
	85	0	>32	0	0		5.8	9	16.1	21.5	25.4	27.6	30.1
<b>Other</b>													
TSS (mg/L)	60	26	N/A				2	2.5	2.5	3	4	10	29
Turbidity (NTU)	60	1	>50	0	0		0.4	0.8	1.2	2.6	6	16.8	40.8
<b>Nutrients (mg/L)</b>													
NH3 as N	60	28	N/A				0.02	0.02	0.02	0.02	0.07	0.27	1.75
NO2 + NO3 as N	60	0	N/A				0.42	2.88	7.41	10.65	18.2	24.75	36.4
TKN as N	60	33	N/A				0.2	0.2	0.2	0.2	0.62	1.13	2.61
Total Phosphorus	60	3	N/A				0.02	0.03	0.04	0.06	0.08	0.14	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	91.6	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	27	31.8	> 99.9	1.6	2.7	3.6	5.6	8.3	10.7	12.5
pH (SU)	85	0	<5	32	37.6	> 99.9	1.6	2.7	3.6	5.6	8.3	10.7	12.5
	85	0	<6	3	3.5		5.8	6.2	6.5	6.7	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.8	6.2	6.5	6.7	6.9	7.1	7.3
Water Temperature (°C)	85	0	N/A				64	80	88	95	104	114	151
	85	0	>32	0	0		3.9	6.5	11	21.3	25.5	27.6	29.2
<b>Other</b>													
TSS (mg/L)	60	14	N/A				1	2.5	2.5	5	7.8	9.9	16
Turbidity (NTU)	60	0	>50	0	0		2.3	2.8	3.6	5.4	9.3	19.7	34.5
<b>Nutrients (mg/L)</b>													
NH3 as N	60	16	N/A				0.02	0.02	0.02	0.06	0.11	0.2	0.67
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.05	0.09	0.18	0.38	0.57	1.05
TKN as N	60	0	N/A				0.21	0.49	0.66	0.84	1.1	1.31	1.53
Total Phosphorus	60	0	N/A				0.02	0.04	0.06	0.08	0.1	0.14	0.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	45.5	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:** 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:** 01/18/2010 to 04/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	72	0	<4	1	1.4		2.6	4.7	5.5	6.3	9.1	10.6	12.4
pH (SU)	72	0	<5	13	18.1	97.4	2.6	4.7	5.5	6.3	9.1	10.6	12.4
	72	0	<6	0	0		6.1	6.6	6.8	7	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	72	0	>9	0	0		6.1	6.6	6.8	7	7.2	7.4	7.8
	72	0	N/A				79	123	155	268	350	498	640
Water Temperature (°C)	72	0	>32	0	0		0.8	6.1	11.4	19.6	24.4	26.9	29.1
<b>Other</b>													
TSS (mg/L)	52	13	N/A				1	2.5	2.5	4	6.8	11.7	16
Turbidity (NTU)	52	0	>50	0	0		1.8	2.2	3.1	5.7	10.5	18.1	27.4
<b>Nutrients (mg/L)</b>													
NH3 as N	52	17	N/A				0.02	0.02	0.02	0.04	0.07	0.11	0.16
NO2 + NO3 as N	52	0	>10	0	0		0.1	0.77	1.12	2.16	4.51	8.28	9.89
TKN as N	52	1	N/A				0.2	0.43	0.63	0.8	1.03	1.17	1.51
Total Phosphorus	52	1	N/A				0.02	0.04	0.05	0.07	0.09	0.12	0.47
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	119.6	5	9.6										

**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 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:** 03/08/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	32	0	<4	0	0		6.9	7	7.4	9.6	11.3	12.7	14.9
pH (SU)	32	0	<5	0	0		6.9	7	7.4	9.6	11.3	12.7	14.9
	33	0	<6	0	0		7.2	7.3	7.4	7.7	7.9	8.1	8.5
	33	0	>9	0	0		7.2	7.3	7.4	7.7	7.9	8.1	8.5
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				97	100	107	184	298	358	518
Water Temperature (°C)	33	0	>32	0	0		0.9	6.5	9.4	17.3	23.8	26.1	28.8
<b>Other</b>													
Hardness (mg/L)	20	0	>100	1	5		16	32	37	57	74	100	121
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	11	17.7	20
Turbidity (NTU)	32	1	>50	1	3.1		1	1.6	2	5.5	14.8	30.5	55
<b>Nutrients (mg/L)</b>													
NH3 as N	30	23	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.06
NO2 + NO3 as N	30	0	>10	0	0		0.35	0.59	0.68	1.02	1.88	2.87	5.3
TKN as N	30	0	N/A				0.34	0.5	0.59	0.68	0.84	1.09	1.2
Total Phosphorus	30	1	N/A				0.02	0.02	0.04	0.06	0.1	0.16	0.32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
32	74.4	5	15.6										

**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 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:** 03/08/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	32	0	<4	0	0		5.1	5.5	6.6	9.4	11.1	12.4	13.5
pH (SU)	32	0	<5	0	0		5.1	5.5	6.6	9.4	11.1	12.4	13.5
	33	0	<6	0	0		6.4	6.9	7.2	7.3	7.5	7.8	9
Salinity (ppt)	33	0	>9	0	0		6.4	6.9	7.2	7.3	7.5	7.8	9
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				89	93	108	164	204	276	332
Water Temperature (°C)	33	0	>32	0	0		2.1	7.5	9.8	18.7	25.6	27.7	29.3
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		17	28	30	38	43	55	57
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	12	15	27.7	78
Turbidity (NTU)	32	0	>50	2	6.2		1.5	3.4	4.6	11.5	18.8	33.2	95
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
32	59.2	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:** 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:** 01/18/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		5.5	6.2	6.9	8.2	10.5	11.6	14.2
pH (SU)	60	0	<5	0	0		5.5	6.2	6.9	8.2	10.5	11.6	14.2
	60	0	<6	0	0		6.1	6.6	6.8	7.1	7.3	7.5	8.5
	60	0	>9	0	0		6.1	6.6	6.8	7.1	7.3	7.5	8.5
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				65	96	131	170	204	254	327
Water Temperature (°C)	60	0	>32	0	0		1.2	6.7	9.2	18.8	25.7	28.7	30.1
<b>Other</b>													
TSS (mg/L)	60	13	N/A				1	2.5	3	5	7	12	204
Turbidity (NTU)	60	0	>50	3	5		1.8	3.4	4.4	7	10.8	18.6	166
<b>Nutrients (mg/L)</b>													
NH3 as N	60	31	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	0.44	0.6	0.82	1.07	1.33	1.83
TKN as N	60	2	N/A				0.2	0.3	0.46	0.6	0.86	1.22	1.88
Total Phosphorus	60	0	N/A				0.06	0.11	0.15	0.22	0.35	0.46	0.54
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	50.7	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:** 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:** 01/25/2010 to 10/14/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	28	58.3	> 99.9	0	0.8	1.8	2.9	8.5	9.7	11.2
pH (SU)	48	0	<5	30	62.5	> 99.9	0	0.8	1.8	2.9	8.5	9.7	11.2
	48	0	<6	6	12.5	65.2	5	5.9	6.2	6.4	6.6	6.8	7
Spec. conductance (umhos/cm at 25°C)	48	0	>9	0	0		5	5.9	6.2	6.4	6.6	6.8	7
	47	0	N/A				50	70	79	88	96	105	109
Water Temperature (°C)	48	0	>32	0	0		2	6.7	10.2	15.2	21.3	24.3	26.8
<b>Other</b>													
TSS (mg/L)	48	6	N/A				1	2.5	4	6	10	23.2	68
Turbidity (NTU)	48	0	>50	3	6.2		4.4	6.1	8.6	11.3	17.3	31.8	132
<b>Nutrients (mg/L)</b>													
NH3 as N	48	16	N/A				0.01	0.02	0.02	0.04	0.1	0.23	0.29
NO2 + NO3 as N	49	11	>10	0	0		0.02	0.02	0.02	0.06	0.16	0.28	0.92
TKN as N	48	0	N/A				0.22	0.27	0.42	0.72	0.92	1.3	1.88
Total Phosphorus	48	0	N/A				0.02	0.03	0.06	0.09	0.14	0.25	0.57
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
48	73.3	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:** 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:** 01/25/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.5	5.8	6.8	8.4	10.1	11.3	12.4
pH (SU)	85	0	<5	1	1.2		4.5	5.8	6.8	8.4	10.1	11.3	12.4
	85	0	<6	1	1.2		5.8	6.5	6.8	7.1	7.4	8.4	8.9
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.8	6.5	6.8	7.1	7.4	8.4	8.9
	85	0	N/A				67	108	145	173	204	227	255
Water Temperature (°C)	85	0	>32	3	3.5		4.1	8.4	12.6	24.2	28.3	30.2	32.8
<b>Other</b>													
Chlorophyll a (ug/L)	60	0	>40	2	3.3		2	5	7	11	22	34	73
TSS (mg/L)	60	2	N/A				2.5	4	6	8	11	23.6	225
Turbidity (NTU)	60	0	>50	3	5		2.2	5.1	5.8	7.8	11.8	29.9	228
<b>Nutrients (mg/L)</b>													
NH3 as N	60	14	N/A				0.02	0.02	0.02	0.06	0.11	0.15	0.58
NO2 + NO3 as N	59	0	>10	0	0		0.07	0.18	0.48	0.6	0.74	0.93	1.18
TKN as N	60	1	N/A				0.2	0.42	0.62	0.8	1.03	1.26	1.59
Total Phosphorus	60	0	N/A				0.03	0.05	0.07	0.1	0.13	0.17	0.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	38.6	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:** 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:** 01/25/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	19	31.7	> 99.9	0.9	2.1	2.8	5.9	9.4	11	12.3
pH (SU)	60	0	<5	24	40	> 99.9	0.9	2.1	2.8	5.9	9.4	11	12.3
	60	0	<6	1	1.7		5.8	6.2	6.5	6.8	6.9	7	7.1
	60	0	>9	0	0		5.8	6.2	6.5	6.8	6.9	7	7.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				62	87	105	128	156	172	208
Water Temperature (°C)	60	0	>32	0	0		1	5.1	8.9	16.2	23.3	25.4	27.4
<b>Other</b>													
TSS (mg/L)	60	34	N/A				1	2.5	2.5	2.5	5	7	19
Turbidity (NTU)	60	0	>50	0	0		1.5	2.2	2.9	4.2	6.2	9.4	16.7
<b>Nutrients (mg/L)</b>													
NH3 as N	60	31	N/A				0.02	0.02	0.02	0.02	0.05	0.08	0.23
NO2 + NO3 as N	60	21	N/A				0.02	0.02	0.02	0.03	0.07	0.13	0.26
TKN as N	60	12	N/A				0.2	0.2	0.23	0.47	0.62	0.8	0.96
Total Phosphorus	60	3	N/A				0.02	0.02	0.04	0.06	0.08	0.11	0.51
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	28.4	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:** 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 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	77	0	<4	1	1.3		2.4	4.9	5.8	6.8	8.9	10.6	12.2
pH (SU)	77	0	<5	8	10.4	48.9	2.4	4.9	5.8	6.8	8.9	10.6	12.2
	77	0	<6	0	0		6.3	6.8	6.9	7	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	77	0	>9	0	0		6.3	6.8	6.9	7	7.2	7.4	7.8
	76	0	N/A				56	125	146	171	196	227	349
Water Temperature (°C)	77	0	>32	1	1.3		4.3	8.7	12.2	23.3	26.4	28.4	32.1
<b>Other</b>													
TSS (mg/L)	54	11	N/A				2.5	2.5	3	6	11	21.5	152
Turbidity (NTU)	54	0	>50	2	3.7		2	3.2	4	6	13	20.2	70.8
<b>Nutrients (mg/L)</b>													
NH3 as N	54	21	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.17
NO2 + NO3 as N	54	0	>10	0	0		0.18	0.29	0.45	0.57	0.71	0.86	1.05
TKN as N	54	2	N/A				0.2	0.36	0.53	0.68	0.87	1.08	1.29
Total Phosphorus	54	0	N/A				0.02	0.05	0.07	0.08	0.1	0.16	0.47
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	97.6	10	18.5										

**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:** 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:** 01/25/2010 to 10/14/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	2	4.2		1.6	6.1	6.6	7.7	10.2	11.3	13
pH (SU)	48	0	<5	3	6.2		1.6	6.1	6.6	7.7	10.2	11.3	13
	48	0	<6	6	12.5	65.2	5.7	5.9	6.3	6.6	6.8	7	7.7
	48	0	>9	0	0		5.7	5.9	6.3	6.6	6.8	7	7.7
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				51	57	60	64	71	77	81
Water Temperature (°C)	48	0	>32	0	0		1.6	6.3	9.4	15	21.6	24.9	27.2
<b>Other</b>													
TSS (mg/L)	48	19	N/A				2	2.4	2.5	3	5.8	8.3	48
Turbidity (NTU)	48	0	>50	1	2.1		2.6	3.2	4.5	5.6	7.7	10	57.2
<b>Nutrients (mg/L)</b>													
NH3 as N	48	33	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.09
NO2 + NO3 as N	48	7	>10	0	0		0.02	0.02	0.08	0.23	0.35	0.6	0.94
TKN as N	48	11	N/A				0.2	0.2	0.22	0.49	0.66	0.93	1.47
Total Phosphorus	48	5	N/A				0.02	0.02	0.02	0.03	0.05	0.09	0.57
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
48	135.7	6	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:** 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:** 01/25/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	4	6.7		1.3	4.7	6.4	7.1	9.4	11.1	13.1
pH (SU)	60	0	<5	6	10		1.3	4.7	6.4	7.1	9.4	11.1	13.1
	60	0	<6	3	5		5.5	6.3	6.5	6.7	6.8	7	7.3
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		5.5	6.3	6.5	6.7	6.8	7	7.3
	59	1	N/A				47	63	71	81	89	99	127
Water Temperature (°C)	60	0	>32	0	0		1.7	5.7	10.2	16	22.8	24.5	28
<b>Other</b>													
TSS (mg/L)	60	28	N/A				2.5	2.5	2.5	3	6	9.9	56
Turbidity (NTU)	60	0	>50	1	1.7		2.9	4.4	5.4	7	9	15.4	83.9
<b>Nutrients (mg/L)</b>													
NH3 as N	60	44	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.29
NO2 + NO3 as N	60	4	>10	0	0		0.02	0.02	0.1	0.23	0.39	0.63	0.82
TKN as N	60	6	N/A				0.2	0.2	0.26	0.49	0.71	0.96	1.39
Total Phosphorus	60	1	N/A				0.02	0.03	0.04	0.07	0.08	0.12	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	98.1	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:** 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:** 01/25/2010 to 10/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	9	18.8	95.3	2.1	3.2	4.3	6.5	9.4	11.2	12.4
pH (SU)	48	0	<5	16	33.3	> 99.9	2.1	3.2	4.3	6.5	9.4	11.2	12.4
	48	0	<6	8	16.7	89.7	5.4	5.8	6.2	6.5	6.6	6.8	6.8
Spec. conductance (umhos/cm at 25°C)	48	0	>9	0	0		5.4	5.8	6.2	6.5	6.6	6.8	6.8
	48	0	N/A				56	68	82	92	101	109	113
Water Temperature (°C)	48	0	>32	0	0		2.2	6.6	10.4	15.4	21.9	24.8	26.8
<b>Other</b>													
TSS (mg/L)	48	19	N/A				1	2.5	2.5	3	5.8	11.1	113
Turbidity (NTU)	48	0	>50	1	2.1		3.1	3.9	4.8	6.2	7.6	12.2	151
<b>Nutrients (mg/L)</b>													
NH3 as N	48	21	N/A				0.02	0.02	0.02	0.02	0.04	0.12	0.42
NO2 + NO3 as N	48	0	>10	0	0		0.04	0.06	0.2	0.38	0.55	0.67	0.93
TKN as N	48	3	N/A				0.14	0.2	0.36	0.53	0.7	0.9	1.97
Total Phosphorus	48	1	N/A				0.02	0.03	0.04	0.06	0.07	0.11	0.58
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
48	130.1	4	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 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:** 01/25/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.3	5.9	6.5	7.1	9.3	10.7	11.8
pH (SU)	85	0	<5	0	0		5.3	5.9	6.5	7.1	9.3	10.7	11.8
	85	0	<6	1	1.2		5.9	6.5	6.8	7	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.5	6.8	7	7.2	7.3	7.5
Water Temperature (°C)	84	0	N/A				68	114	139	168	192	218	246
	85	0	>32	0	0		4.3	7.4	11.6	23.7	27.8	30	31.6
<b>Other</b>													
TSS (mg/L)	60	14	N/A				2.5	2.5	4	8	11.8	39.1	128
Turbidity (NTU)	60	0	>50	3	5		1.8	2.9	4.9	8	12.2	21.9	64.4
<b>Nutrients (mg/L)</b>													
NH3 as N	60	23	N/A				0.02	0.02	0.02	0.02	0.05	0.1	0.18
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.25	0.43	0.58	0.76	0.9	1.15
TKN as N	60	4	N/A				0.2	0.34	0.49	0.68	0.84	1	1.45
Total Phosphorus	60	0	N/A				0.02	0.05	0.06	0.08	0.1	0.21	0.54
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	68.2	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:** 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:** 01/21/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<4	0	0		5.6	5.8	7.1	9.8	12	13.8	14.1
pH (SU)	24	0	<5	0	0		5.6	5.8	7.1	9.8	12	13.8	14.1
	24	0	<6	2	8.3		5.4	6.1	6.5	6.7	7.1	7.2	7.8
	24	0	>9	0	0		5.4	6.1	6.5	6.7	7.1	7.2	7.8
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				62	120	125	152	192	225	242
Water Temperature (°C)	24	0	>32	0	0		4.4	6.4	7	13.6	21	28.2	29.2
<b>Other</b>													
Chloride (mg/L)	2	0	>230	0	0		26	26	26	28	29	29	29
Fluoride (mg/L)	2	2	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	19	0	>100	0	0		25	27	32	34	37	40	54
Sulfate (mg/L)	2	0	>250	0	0		17	17	17	20	22	22	22
TSS (mg/L)	18	7	N/A				6.2	6.2	6.2	12	25.2	86.2	322
Turbidity (NTU)	55	0	>50	3	5.5		1.6	4.3	6.9	12	18	47	130
<b>Nutrients (mg/L)</b>													
NH3 as N	55	15	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.18
NO2 + NO3 as N	55	0	>10	0	0		0.13	0.21	0.42	0.55	0.68	0.89	1.3
TKN as N	55	0	N/A				0.41	0.5	0.54	0.65	0.76	0.94	4
Total Phosphorus	54	0	N/A				0.03	0.06	0.08	0.1	0.14	0.22	1.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	68.9	4	7.3										

**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:** 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:** 01/25/2010 to 10/14/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	14	29.2	> 99.9	1	1.8	2.8	6.2	9.1	11.1	12.7
pH (SU)	48	0	<5	18	37.5	> 99.9	1	1.8	2.8	6.2	9.1	11.1	12.7
	48	0	<6	9	18.8	95.3	5.3	5.7	6.1	6.4	6.6	6.8	6.8
Spec. conductance (umhos/cm at 25°C)	48	0	>9	0	0		5.3	5.7	6.1	6.4	6.6	6.8	6.8
	48	1	N/A				47	67	80	96	115	170	202
Water Temperature (°C)	48	0	>32	0	0		1.8	7.2	10.8	16.4	23	27.6	29.7
<b>Other</b>													
TSS (mg/L)	48	19	N/A				2.5	2.5	2.5	3	6	10.3	61
Turbidity (NTU)	48	0	>50	0	0		2.5	3	3.4	4.6	6.6	9.2	30.2
<b>Nutrients (mg/L)</b>													
NH3 as N	48	22	N/A				0.02	0.02	0.02	0.02	0.07	0.1	0.32
NO2 + NO3 as N	48	4	>10	0	0		0.02	0.02	0.06	0.1	0.16	0.3	0.64
TKN as N	48	1	N/A				0.2	0.35	0.52	0.71	0.92	1.23	1.76
Total Phosphorus	48	2	N/A				0.02	0.03	0.04	0.06	0.09	0.14	0.56

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
48	157.6	8	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:** 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:** 01/27/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	4	6.7		2.5	4.1	5.5	7.2	9	10.8	12.3
pH (SU)	60	0	<5	13	21.7	99.4	2.5	4.1	5.5	7.2	9	10.8	12.3
	60	0	<6	3	5		5.4	6.2	6.5	6.7	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		5.4	6.2	6.5	6.7	6.9	7	7.3
	60	0	N/A				54	61	72	90	118	149	294
Water Temperature (°C)	60	0	>32	0	0		2.6	5.5	8.5	17.8	24.4	26.1	27.9
<b>Other</b>													
TSS (mg/L)	60	18	N/A				1	2.5	2.5	4	6	11.8	16
Turbidity (NTU)	60	0	>50	0	0		2	3.2	4.5	5.4	8.2	10.4	32.2
<b>Nutrients (mg/L)</b>													
NH3 as N	60	28	N/A				0.02	0.02	0.02	0.02	0.06	0.1	0.2
NO2 + NO3 as N	60	3	N/A				0.02	0.04	0.14	0.28	0.61	1.16	4.15
TKN as N	60	3	N/A				0.2	0.28	0.42	0.57	0.81	0.97	1.29
Total Phosphorus	60	1	N/A				0.02	0.05	0.07	0.16	0.28	0.39	0.54
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	58.5	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:** 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:** 01/27/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	4	6.7		2	4.6	6.5	7.3	9.4	10.5	12.3
pH (SU)	60	0	<5	6	10		2	4.6	6.5	7.3	9.4	10.5	12.3
	60	0	<6	18	30	> 99.9	4.6	5.6	5.9	6.2	6.4	6.6	7
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		4.6	5.6	5.9	6.2	6.4	6.6	7
Water Temperature (°C)	60	1	N/A				47	55	71	86	106	158	417
<b>Other</b>													
TSS (mg/L)	60	32	N/A				1	2.5	2.5	2.5	4	8.9	25
Turbidity (NTU)	60	0	>50	0	0		0.6	1.5	2.2	4.2	6.6	8.9	13.8
<b>Nutrients (mg/L)</b>													
NH3 as N	60	44	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.07
NO2 + NO3 as N	60	1	>10	0	0		0.03	0.07	0.12	0.22	0.41	0.57	0.79
TKN as N	60	5	N/A				0.2	0.2	0.35	0.44	0.68	0.91	1.27
Total Phosphorus	60	14	N/A				0.02	0.02	0.02	0.03	0.05	0.06	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	73.6	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:** 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:** 01/21/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<4	0	0		5.6	6.2	7.1	9.2	11.1	12.2	13.1
pH (SU)	24	0	<5	0	0		5.6	6.2	7.1	9.2	11.1	12.2	13.1
	24	0	<6	4	16.7	78.5	4.8	5.6	6.1	6.4	6.7	7	7.4
	24	0	>9	0	0		4.8	5.6	6.1	6.4	6.7	7	7.4
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				52	54	58	80	88	104	111
Water Temperature (°C)	24	0	>32	0	0		3.7	4.6	8.2	14.1	19.4	24.2	25.2
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		12	14	18	24	32	54	70
TSS (mg/L)	19	15	N/A				6.2	6.2	6.2	6.2	8	12	13
Turbidity (NTU)	58	1	>50	0	0		1	1.8	2.3	3.8	7.3	11	45
<b>Nutrients (mg/L)</b>													
NH3 as N	57	39	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	0.24	0.34	0.5	0.66
TKN as N	57	0	N/A				0.22	0.3	0.38	0.45	0.52	0.69	1.2
Total Phosphorus	56	2	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.26
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	78.9	3	5.2										

**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:** 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:** 01/27/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.2	6.5	7	7.5	9.7	11.1	13.4
pH (SU)	85	0	<5	0	0		6.2	6.5	7	7.5	9.7	11.1	13.4
	85	0	<6	2	2.4		5.9	6.6	6.8	7.1	7.4	7.7	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.6	6.8	7.1	7.4	7.7	8.2
Water Temperature (°C)	85	0	N/A				77	108	135	161	190	209	375
	85	0	>32	0	0		3.2	7.1	13.4	23.1	28	29.9	31.8
<b>Other</b>													
TSS (mg/L)	60	11	N/A				2	2.5	3	6	13	34.9	181
Turbidity (NTU)	60	0	>50	4	6.7		1.3	2.6	4	6.6	13.8	38.1	108
<b>Nutrients (mg/L)</b>													
NH3 as N	60	36	N/A				0.02	0.02	0.02	0.02	0.03	0.09	0.16
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.28	0.4	0.57	0.75	0.9	1.12
TKN as N	60	2	N/A				0.2	0.32	0.46	0.64	0.81	1.03	1.39
Total Phosphorus	60	1	N/A				0.02	0.05	0.07	0.08	0.1	0.18	0.62
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	45.1	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:** 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:** 01/26/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	<4	1	4.5		2.9	4.6	6.6	9.8	11.2	12.4	12.6
pH (SU)	22	0	<5	2	9.1		2.9	4.6	6.6	9.8	11.2	12.4	12.6
	23	0	<6	6	26.1	97.7	4.5	5.1	5.6	6.3	6.7	7.2	7.3
	23	0	>9	0	0		4.5	5.1	5.6	6.3	6.7	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				36	37	39	40	43	52	74
Water Temperature (°C)	23	0	>32	0	0		4.2	6.3	8.5	11.5	23	24.6	25.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		5	7	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	2.3	3.6	5.9	7.9	18
<b>Nutrients (mg/L)</b>													
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	0.11	0.16	0.26	0.35
TKN as N	55	1	N/A				0.2	0.31	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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	89.7	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:** 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:** 01/21/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<4	0	0		6.6	7.4	8.1	10.2	12.2	12.8	14
pH (SU)	24	0	<5	0	0		6.6	7.4	8.1	10.2	12.2	12.8	14
	24	0	<6	18	75	>99.9	4.6	5	5.3	5.6	6	6.8	7.5
Spec. conductance (umhos/cm at 25°C)	24	0	>9	0	0		4.6	5	5.3	5.6	6	6.8	7.5
Water Temperature (°C)	24	0	N/A				30	31	34	37	46	58	68
	24	0	>32	0	0		3.3	4.6	9.1	13.9	20.4	24.6	25
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				8	8	9	10	13	15	15
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	7.8	12.4	16
Turbidity (NTU)	57	0	>50	0	0		1.4	2.7	3.2	4	5.8	7.4	23
<b>Nutrients (mg/L)</b>													
NH3 as N	56	35	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.07
NO2 + NO3 as N	56	0	N/A				0.05	0.06	0.12	0.43	0.79	1.23	2.3
TKN as N	56	0	N/A				0.2	0.32	0.35	0.39	0.47	0.56	0.77
Total Phosphorus	55	4	N/A				0.02	0.02	0.02	0.07	0.16	0.22	0.41
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	92.9	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:** 01/27/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		6.2	6.7	7.3	8.4	10.2	11.5	13.4
pH (SU)	60	0	<5	0	0		6.2	6.7	7.3	8.4	10.2	11.5	13.4
	60	0	<6	22	36.7	> 99.9	4.5	5.5	5.9	6.2	6.5	6.7	7.2
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		4.5	5.5	5.9	6.2	6.5	6.7	7.2
	55	17	N/A				40	47	47	50	71	91	139
Water Temperature (°C)	60	0	>32	0	0		2.4	6.6	9.4	17.8	24.2	26.4	28
<b>Other</b>													
TSS (mg/L)	60	21	N/A				1	2.5	2.5	3	6	12	48
Turbidity (NTU)	60	0	>50	1	1.7		1.5	2.3	3.1	3.8	5.8	8.8	64.3
<b>Nutrients (mg/L)</b>													
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	0.08	0.14	0.36	0.75	1.52	3.17
TKN as N	60	9	N/A				0.2	0.2	0.36	0.5	0.66	0.78	1.09
Total Phosphorus	60	2	N/A				0.02	0.02	0.04	0.07	0.21	0.39	0.54
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	77	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:** 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:** 01/27/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		6.2	6.6	7.3	8.4	10.2	11.7	13.5
pH (SU)	60	0	<5	0	0		6.2	6.6	7.3	8.4	10.2	11.7	13.5
	60	0	<6	15	25	99.9	4.2	5.6	6	6.3	6.6	6.8	6.9
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		4.2	5.6	6	6.3	6.6	6.8	6.9
	57	11	N/A				47	47	48	60	78	99	139
Water Temperature (°C)	60	0	>32	0	0		2.3	5.9	9.4	17.4	24	26.5	28
<b>Other</b>													
TSS (mg/L)	60	16	N/A				2	2.5	2.5	4	7.8	12.9	57
Turbidity (NTU)	60	0	>50	0	0		1.2	2.5	3.1	4	5.8	9.6	37.2
<b>Nutrients (mg/L)</b>													
NH3 as N	60	38	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.09
NO2 + NO3 as N	60	1	N/A				0.02	0.18	0.33	0.5	0.92	1.5	2.49
TKN as N	60	10	N/A				0.2	0.2	0.32	0.48	0.63	0.81	1.38
Total Phosphorus	60	2	N/A				0.02	0.06	0.09	0.16	0.27	0.42	0.61
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	66.4	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:** 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:** 01/13/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5	5.9	6.4	7.3	9.5	10.8	12.4
pH (SU)	85	0	<5	1	1.2		5	5.9	6.4	7.3	9.5	10.8	12.4
	85	0	<6	1	1.2		5.9	6.5	6.8	7	7.2	7.4	8.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.5	6.8	7	7.2	7.4	8.4
	85	0	N/A				74	104	124	145	172	203	227
Water Temperature (°C)	85	0	>32	2	2.4		3.5	7	13.3	23.8	28.6	29.7	32.8
<b>Other</b>													
TSS (mg/L)	60	7	N/A				2	2.5	4	6	12.8	30.7	53
Turbidity (NTU)	60	0	>50	1	1.7		2.7	3.5	5.4	7.2	13.2	26.7	60.4
<b>Nutrients (mg/L)</b>													
NH3 as N	60	31	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		0.2	0.38	0.5	0.7	0.87	1.09	1.34
TKN as N	60	4	N/A				0.2	0.23	0.44	0.64	0.76	0.96	1.08
Total Phosphorus	60	0	N/A				0.02	0.06	0.08	0.1	0.14	0.17	0.43
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	61.2	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:** 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:** 01/13/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.1	5.6	6.3	7.5	9.5	10.9	12.2
pH (SU)	85	0	<5	0	0		5.1	5.6	6.3	7.5	9.5	10.9	12.2
	85	0	<6	1	1.2		5.9	6.4	6.8	7	7.1	7.3	8.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.4	6.8	7	7.1	7.3	8.4
Water Temperature (°C)	85	0	N/A				69	107	123	146	165	200	216
	85	0	>32	0	0		3.4	7.1	13.4	23.1	28	29.8	32
<b>Other</b>													
TSS (mg/L)	60	4	N/A				1	3	4.2	7	11.8	31.5	55
Turbidity (NTU)	60	0	>50	1	1.7		2.1	3.7	5.4	8.3	13.2	20.1	62.4
<b>Nutrients (mg/L)</b>													
NH3 as N	60	29	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	0.44	0.56	0.76	0.91	1.04	1.25
TKN as N	60	3	N/A				0.2	0.3	0.45	0.62	0.81	0.91	1.04
Total Phosphorus	60	0	N/A				0.02	0.07	0.08	0.11	0.14	0.18	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	52.8	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:** 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:** 01/13/2010 to 06/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	42	0	<4	0	0		5.7	7.6	8	9.2	11	12.1	15.4
pH (SU)	42	0	<5	0	0		5.7	7.6	8	9.2	11	12.1	15.4
	42	0	<6	9	21.4	97.9	5.5	5.8	6	6.5	7	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	42	0	>9	0	0		5.5	5.8	6	6.5	7	7.3	8.2
	42	1	N/A				47	49	54	64	69	73	277
Water Temperature (°C)	42	0	>32	0	0		1.7	5.3	9.2	16.9	23	26.5	28.1
<b>Other</b>													
TSS (mg/L)	42	20	N/A				1	2.2	2.5	2.5	4.2	9.7	53
Turbidity (NTU)	42	0	>50	0	0		0.1	2.5	3.4	5	7.3	12.6	32.5
<b>Nutrients (mg/L)</b>													
NH3 as N	42	14	N/A				0.02	0.02	0.02	0.03	0.06	0.11	0.28
NO2 + NO3 as N	42	1	N/A				0.02	0.06	0.11	0.18	0.29	0.4	0.49
TKN as N	42	3	N/A				0.2	0.22	0.32	0.43	0.56	0.75	4.12
Total Phosphorus	42	14	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
42	254.8	15	35.7	98.7									

**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:** 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:** 01/13/2010 to 06/17/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	42	0	<4	0	0		4.9	6.5	7.2	8.1	10.2	11.4	13.5
pH (SU)	42	0	<5	1	2.4		4.9	6.5	7.2	8.1	10.2	11.4	13.5
	42	0	<6	14	33.3	>99.9	5.4	5.5	5.8	6.2	6.6	6.9	7.8
Spec. conductance (umhos/cm at 25°C)	42	0	>9	0	0		5.4	5.5	5.8	6.2	6.6	6.9	7.8
	42	0	N/A				53	63	74	82	89	103	185
Water Temperature (°C)	42	0	>32	0	0		3.4	6.6	10.4	18	22.8	26.4	28.8
<b>Other</b>													
TSS (mg/L)	42	16	N/A				1	2.5	2.5	3	6	8.7	129
Turbidity (NTU)	42	0	>50	1	2.4		2.1	2.9	4	5.2	6.9	9.7	97.9
<b>Nutrients (mg/L)</b>													
NH3 as N	42	3	N/A				0.02	0.02	0.03	0.07	0.1	0.12	0.15
NO2 + NO3 as N	42	0	N/A				0.1	0.17	0.28	0.36	0.44	0.52	0.64
TKN as N	42	2	N/A				0.2	0.26	0.33	0.42	0.54	0.64	0.78
Total Phosphorus	42	8	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.42
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
42	352.3	19	45.2	> 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:** 01/13/2010 to 06/17/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	42	0	<4	3	7.1		1.9	4.5	5.7	7.2	8.5	9.2	11.7
pH (SU)	42	0	<5	8	19	94.6	1.9	4.5	5.7	7.2	8.5	9.2	11.7
	42	0	<6	0	0		6	6.3	6.4	6.7	7	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	42	0	>9	0	0		6	6.3	6.4	6.7	7	7.2	7.7
	42	0	N/A				62	110	189	234	254	304	517
Water Temperature (°C)	42	0	>32	0	0		5.4	8.2	10.4	15.8	21.5	24.5	25.4
<b>Other</b>													
TSS (mg/L)	42	8	N/A				2	2.5	3.8	6	10.2	13.4	119
Turbidity (NTU)	42	0	>50	3	7.1		6.8	12.2	15.6	18.8	22.6	33.3	116
<b>Nutrients (mg/L)</b>													
NH3 as N	42	1	N/A				0.02	0.06	0.08	0.1	0.16	0.24	0.36
NO2 + NO3 as N	42	0	N/A				0.05	0.06	0.1	0.16	0.21	0.31	0.37
TKN as N	42	0	N/A				0.26	0.46	0.56	0.74	0.89	1.36	1.49
Total Phosphorus	42	1	N/A				0.01	0.02	0.03	0.04	0.06	0.12	0.54

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
42	624.2	20	47.6	> 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:** 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:** 01/13/2010 to 10/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	47	0	<4	13	27.7	> 99.9	0.6	2.5	3.6	5.1	8.4	9.8	11.3
pH (SU)	47	0	<5	23	48.9	> 99.9	0.6	2.5	3.6	5.1	8.4	9.8	11.3
	47	0	<6	0	0		6.8	7	7.2	7.5	7.8	7.9	8.2
	47	0	>9	0	0		6.8	7	7.2	7.5	7.8	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				100	628	749	936	1020	1201	1973
Water Temperature (°C)	47	0	>32	0	0		2	4.7	9.4	14.2	21.3	25	26
<b>Other</b>													
TSS (mg/L)	47	6	N/A				2.5	2.5	4	8	18	46.6	200
Turbidity (NTU)	47	0	>50	4	8.5		1.8	4.7	9.3	16	24.5	52.5	225
<b>Nutrients (mg/L)</b>													
NH3 as N	47	0	N/A				0.02	0.16	1.05	6.1	10.7	19.96	36
NO2 + NO3 as N	47	2	N/A				0.02	0.38	0.78	2.39	4.43	5.24	7.42
TKN as N	47	0	N/A				0.65	2.4	3.32	8.09	13.5	23.64	47.7
Total Phosphorus	47	2	N/A				0.02	0.03	0.05	0.09	0.14	0.29	0.82
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
47	454.8	20	42.6	> 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:** 01/13/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		6.2	6.9	7.5	9	11	11.6	14.7
pH (SU)	60	0	<5	0	0		6.2	6.9	7.5	9	11	11.6	14.7
	60	0	<6	0	0		6	6.1	6.5	6.7	7	7.2	7.9
	60	0	>9	0	0		6	6.1	6.5	6.7	7	7.2	7.9
Spec. conductance (umhos/cm at 25°C)	59	1	N/A				47	52	60	71	79	87	113
Water Temperature (°C)	60	0	>32	0	0		2.1	6.3	8.8	18.2	23.6	26.6	28.8
<b>Other</b>													
TSS (mg/L)	60	21	N/A				1	2.5	2.5	3	6	10.9	35
Turbidity (NTU)	60	0	>50	0	0		2.5	2.9	3.4	5.2	8.1	11.6	30.7
<b>Nutrients (mg/L)</b>													
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.04	0.08	0.12	0.24
NO2 + NO3 as N	60	0	N/A				0.01	0.1	0.18	0.26	0.37	0.46	1.09
TKN as N	60	10	N/A				0.2	0.2	0.26	0.4	0.57	0.81	3.03
Total Phosphorus	60	14	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.52
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	359.9	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:** 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:** 01/21/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	23	0	<4	0	0		5.2	5.7	6.7	9.2	11.6	13.3	13.7
pH (SU)	23	0	<5	0	0		5.2	5.7	6.7	9.2	11.6	13.3	13.7
	23	0	<6	1	4.3		5.9	6.4	6.8	6.9	7.1	7.3	7.6
	23	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)	23	0	N/A				60	94	109	138	169	179	207
Water Temperature (°C)	23	0	>32	0	0		3.9	5.6	9	15.6	23.1	28	29.4
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				26	27	29	32	33	37	38
TSS (mg/L)	17	2	N/A				6.2	6.2	7.3	8.8	14.5	22.4	24
Turbidity (NTU)	56	0	>50	1	1.8		3.4	4.9	7.2	11	13.8	30.8	100
<b>Nutrients (mg/L)</b>													
NH3 as N	56	22	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.1
NO2 + NO3 as N	56	0	N/A				0.35	0.47	0.55	0.68	0.86	1	1.3
TKN as N	56	0	N/A				0.36	0.48	0.52	0.6	0.66	0.7	1
Total Phosphorus	55	0	N/A				0.04	0.09	0.1	0.12	0.14	0.17	0.25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	57.1	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:** 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:** 01/13/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		5.3	6.3	6.6	8	9.8	10.6	12.5
pH (SU)	60	0	<5	0	0		5.3	6.3	6.6	8	9.8	10.6	12.5
	60	0	<6	59	98.3	>99.9	3.7	3.9	4.2	4.5	4.9	5.2	6.5
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		3.7	3.9	4.2	4.5	4.9	5.2	6.5
	37	33	N/A				13	43	47	47	47	47	55
Water Temperature (°C)	60	0	>32	0	0		4.3	6.8	8.9	17.2	21.4	24.4	25.6
<b>Other</b>													
TSS (mg/L)	60	21	N/A				1	2.5	2.5	4	6	8	34
Turbidity (NTU)	60	0	>50	0	0		1.7	1.9	2.3	2.9	4.4	7.2	23.1
<b>Nutrients (mg/L)</b>													
NH3 as N	60	48	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.05
NO2 + NO3 as N	60	2	N/A				0.02	0.04	0.05	0.07	0.09	0.2	0.8
TKN as N	60	17	N/A				0.18	0.2	0.2	0.28	0.41	0.54	0.7
Total Phosphorus	60	28	N/A				0.01	0.02	0.02	0.02	0.02	0.03	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	83.1	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:** 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:** 01/13/2010 to 12/18/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		5.1	6.6	6.8	8.1	10.1	10.9	12.7
pH (SU)	60	0	<5	0	0		5.1	6.6	6.8	8.1	10.1	10.9	12.7
	60	0	<6	48	80	>99.9	4.3	4.6	5.1	5.6	5.9	6.5	7
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		4.3	4.6	5.1	5.6	5.9	6.5	7
	42	29	N/A				29	47	47	47	48	55	67
Water Temperature (°C)	60	0	>32	0	0		3.9	6.4	8.9	17.4	21.6	24.3	26.5
<b>Other</b>													
TSS (mg/L)	60	14	N/A				2	2.5	2.6	4.5	9.8	13	18
Turbidity (NTU)	60	0	>50	0	0		1.4	1.8	2.6	3.6	6.5	8.6	13.8
<b>Nutrients (mg/L)</b>													
NH3 as N	60	41	N/A				0.02	0.02	0.02	0.02	0.03	0.09	0.26
NO2 + NO3 as N	60	0	N/A				0.07	0.19	0.26	0.41	0.57	0.72	1.18
TKN as N	60	11	N/A				0.2	0.2	0.29	0.43	0.6	0.83	0.95
Total Phosphorus	60	4	N/A				0.02	0.02	0.04	0.07	0.13	0.26	0.62
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	236.7	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:** 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:** 01/05/2010 to 12/01/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	25	0	<4	0	0		6.6	6.9	7.8	9.2	11.4	12.1	13.9
pH (SU)	25	0	<5	0	0		6.6	6.9	7.8	9.2	11.4	12.1	13.9
	26	0	<6	21	80.8	>99.9	4.4	4.6	5	5.5	5.9	6.7	7
Spec. conductance (umhos/cm at 25°C)	26	0	>9	0	0		4.4	4.6	5	5.5	5.9	6.7	7
	26	0	N/A				25	26	28	34	40	44	47
Water Temperature (°C)	26	0	>32	0	0		3.2	5.1	8	13.9	19	23.4	24.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				5	5	5	6	7	7	10
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	6.2	8.2	13	16
Turbidity (NTU)	57	0	>50	0	0		1.9	2.3	3.2	4.4	6.6	9.5	19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	179.6	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:** 01/05/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	25	0	<4	0	0		6.7	7.3	7.8	9.8	11.8	12.2	12.8
pH (SU)	25	0	<5	0	0		6.7	7.3	7.8	9.8	11.8	12.2	12.8
	26	0	<6	16	61.5	>99.9	4.9	5	5.4	5.8	6.5	7.1	7.6
Spec. conductance (umhos/cm at 25°C)	26	0	>9	0	0		4.9	5	5.4	5.8	6.5	7.1	7.6
Water Temperature (°C)	26	0	N/A				35	37	40	43	45	48	52
	26	0	>32	0	0		4.5	5.4	8	14	20.9	24.6	26
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				4	5	7	8	9	10	12
TSS (mg/L)	19	7	N/A				6.2	6.2	6.2	8.8	12	16	22
Turbidity (NTU)	58	0	>50	0	0		2.7	4	5.5	7	10.2	15	35
<b>Nutrients (mg/L)</b>													
NH3 as N	58	17	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.05
NO2 + NO3 as N	58	0	N/A				0.09	0.17	0.23	0.32	0.39	0.47	0.56
TKN as N	57	0	N/A				0.2	0.29	0.35	0.41	0.46	0.52	0.75
Total Phosphorus	58	0	N/A				0.02	0.03	0.04	0.06	0.08	0.1	0.16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	78.3	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:** 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:** 01/13/2010 to 12/18/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	0	0		6.2	6.7	7.1	8.2	10.1	11.3	13.2
pH (SU)	60	0	<5	0	0		6.2	6.7	7.1	8.2	10.1	11.3	13.2
	60	0	<6	29	48.3	>99.9	3.6	5.1	5.5	6	6.3	6.7	7.6
Spec. conductance (umhos/cm at 25°C)	60	0	>9	0	0		3.6	5.1	5.5	6	6.3	6.7	7.6
	46	30	N/A				36	47	47	47	48	56	159
Water Temperature (°C)	60	0	>32	0	0		3.4	6.1	9.7	18.4	23.5	26.2	28.8
<b>Other</b>													
TSS (mg/L)	60	5	N/A				2	2.6	4	8	13.8	22.8	50
Turbidity (NTU)	60	0	>50	0	0		2	3.6	4.9	6.6	10.2	15.3	29.5
<b>Nutrients (mg/L)</b>													
NH3 as N	60	44	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.09
NO2 + NO3 as N	60	0	N/A				0.05	0.13	0.19	0.26	0.38	0.47	0.55
TKN as N	60	9	N/A				0.19	0.2	0.26	0.44	0.61	0.73	1.02
Total Phosphorus	60	6	N/A				0.02	0.02	0.03	0.05	0.07	0.09	0.39
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	103.3	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:** 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:** 01/13/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.9	5.7	6.5	7.6	9.1	10.7	12.3
pH (SU)	85	0	<5	2	2.4		4.9	5.7	6.5	7.6	9.1	10.7	12.3
	85	0	<6	1	1.2		5.9	6.4	6.7	6.9	7.1	7.3	8.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.4	6.7	6.9	7.1	7.3	8.6
	85	0	N/A				74	100	114	131	152	177	205
Water Temperature (°C)	85	0	>32	0	0		3.3	7.3	13.4	23.2	28.1	29.4	31.3
<b>Other</b>													
Chlorophyll a (ug/L)	60	0	>40	2	3.3		1	1	2	5	11	21	47
TSS (mg/L)	60	4	N/A				2.5	3.1	5	8	13	29	57
Turbidity (NTU)	60	0	>50	1	1.7		1.3	3.7	6	7.8	11	22.5	57.1
<b>Nutrients (mg/L)</b>													
NH3 as N	60	28	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	0.48	0.64	0.8	0.96	1.18	1.64
TKN as N	60	3	N/A				0.16	0.27	0.48	0.67	0.81	0.94	1.14
Total Phosphorus	60	0	N/A				0.02	0.07	0.1	0.13	0.17	0.2	0.49
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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:** 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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	25	0	<4	1	4		3.8	5.5	7	9.2	11.8	13.3	14.2
	25	0	<5	2	8		3.8	5.5	7	9.2	11.8	13.3	14.2
pH (SU)	26	0	<6	2	7.7		5.2	6	6.3	6.5	6.8	6.9	7.4
	26	0	>9	0	0		5.2	6	6.3	6.5	6.8	6.9	7.4
Spec. conductance (umhos/cm at 25°C)	26	0	N/A				91	94	112	134	144	168	174
Water Temperature (°C)	26	0	>32	0	0		3.6	5.4	8.4	15.4	22.8	28.8	30.1
<b>Other</b>													
Chloride (mg/L)	2	0	>230	0	0		16	16	16	18	21	21	21
Fluoride (mg/L)	2	1	>1.8	0	0		0.4	0.4	0.4	0.46	0.53	0.53	0.53
Sulfate (mg/L)	2	0	>250	0	0		13	13	13	16	19	19	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:** 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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.9	5.8	6.4	7.3	9.5	10.9	12.6
pH (SU)	85	0	<5	2	2.4		4.9	5.8	6.4	7.3	9.5	10.9	12.6
	85	0	<6	1	1.2		5.9	6.3	6.6	6.8	7	7.1	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.3	6.6	6.8	7	7.1	8.1
Water Temperature (°C)	85	0	N/A				51	101	120	140	164	184	231
	85	0	>32	0	0		3.4	7.8	13.8	22.8	28	29.6	31.4
<b>Other</b>													
TSS (mg/L)	60	10	N/A				2.5	2.5	3.2	7	14.5	28.9	141
Turbidity (NTU)	60	0	>50	4	6.7		2.7	3.5	5	8.2	15.6	32.6	98.6
<b>Nutrients (mg/L)</b>													
NH3 as N	60	12	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	0.48	0.67	0.88	1.18	1.62	1.83
TKN as N	60	2	N/A				0.04	0.31	0.5	0.64	0.86	1.02	2.03
Total Phosphorus	60	0	N/A				0.06	0.09	0.14	0.17	0.22	0.34	0.57
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	27.6	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 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:** 01/12/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.7	5.6	6.2	7.1	9.5	10.8	12.5
pH (SU)	85	0	<5	1	1.2		4.7	5.6	6.2	7.1	9.5	10.8	12.5
	85	0	<6	0	0		6	6.3	6.6	6.8	7	7.1	8
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6	6.3	6.6	6.8	7	7.1	8
Water Temperature (°C)	85	0	N/A				52	102	122	145	168	188	226
	85	0	>32	0	0		3.4	7.7	13.8	22.9	27.6	29.7	31.4
<b>Other</b>													
Chlorophyll a (ug/L)	60	1	>40	1	1.7		1	1	2	4	8	15	44
TSS (mg/L)	60	7	N/A				2.5	2.5	5	8	16.5	35.8	133
Turbidity (NTU)	60	0	>50	4	6.7		1.3	3.7	5.1	8.6	14.8	34.6	96.8
<b>Nutrients (mg/L)</b>													
NH3 as N	60	10	N/A				0.02	0.02	0.03	0.04	0.09	0.13	0.34
NO2 + NO3 as N	60	0	N/A				0.29	0.59	0.77	0.99	1.28	1.61	1.75
TKN as N	60	2	N/A				0.2	0.33	0.52	0.65	0.85	1.02	1.28
Total Phosphorus	60	0	N/A				0.07	0.11	0.15	0.19	0.28	0.34	0.62
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.7	5.2	6	6.9	9	10.7	11.8
pH (SU)	85	0	<5	5	5.9		4.7	5.2	6	6.9	9	10.7	11.8
	85	0	<6	2	2.4		5.8	6.2	6.6	6.7	6.9	7	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.8	6.2	6.6	6.7	6.9	7	7.5
	85	0	N/A				54	102	123	141	163	187	223
Water Temperature (°C)	85	0	>32	0	0		3.6	7.9	13.6	23.2	27.8	29.8	31.3
<b>Other</b>													
TSS (mg/L)	60	1	N/A				2.5	3	4	8	12	29.4	130
Turbidity (NTU)	60	0	>50	2	3.3		3.1	4.4	6.6	9.2	14.9	26.7	105
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.05	0.09	0.11	0.2
NO2 + NO3 as N	60	0	N/A				0.08	0.53	0.74	0.96	1.27	1.48	1.89
TKN as N	60	2	N/A				0.2	0.32	0.5	0.68	0.8	1.01	1.36
Total Phosphorus	60	0	N/A				0.1	0.11	0.13	0.2	0.25	0.31	0.58
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	25.7	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:** 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:** 01/12/2010 to 10/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	1	2.1		3.6	4.8	5.4	6.4	8.6	10.3	12
pH (SU)	48	0	<5	8	16.7	89.7	3.6	4.8	5.4	6.4	8.6	10.3	12
	48	0	<6	48	100	>99.9	3.4	3.6	4.1	4.3	5	5.7	5.8
Spec. conductance (umhos/cm at 25°C)	48	0	>9	0	0		3.4	3.6	4.1	4.3	5	5.7	5.8
Water Temperature (°C)	48	0	N/A				51	58	66	74	91	102	134
<b>Other</b>													
TSS (mg/L)	48	22	>32	0	0		2.5	5.2	10.7	15.8	22.4	23.8	25.7
Turbidity (NTU)	48	1	N/A				1	2	2.5	2.5	4	6.1	15
<b>Nutrients (mg/L)</b>													
NH3 as N	48	25	>50	0	0		1	1.5	2.1	3	4.2	6	8.5
NO2 + NO3 as N	48	0	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.19
TKN as N	48	0	N/A				0.05	0.09	0.13	0.24	0.62	1.54	1.93
Total Phosphorus	48	2	N/A				0.2	0.38	0.63	0.84	1.07	1.23	1.54
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
48	112.8	4	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 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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.5	5.2	5.9	6.8	9.1	10.7	12.1
pH (SU)	85	0	<5	6	7.1		4.5	5.2	5.9	6.8	9.1	10.7	12.1
	85	0	<6	2	2.4		5.8	6.2	6.6	6.7	6.9	7	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.8	6.2	6.6	6.7	6.9	7	7.5
	85	0	N/A				54	102	122	141	165	185	220
Water Temperature (°C)	85	0	>32	1	1.2		3.5	8	13.4	23.3	28.1	30	32.5
<b>Other</b>													
TSS (mg/L)	60	6	N/A				2.5	2.6	5	7	13.5	37.5	96
Turbidity (NTU)	60	0	>50	3	5		2.7	4.7	6.4	9	14.8	36.5	96.2
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.05	0.08	0.12	0.21
NO2 + NO3 as N	60	0	N/A				0.19	0.51	0.72	0.97	1.27	1.53	1.89
TKN as N	60	0	N/A				0.2	0.34	0.5	0.68	0.8	1.04	1.25
Total Phosphorus	60	0	N/A				0.1	0.11	0.15	0.2	0.24	0.29	0.51
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	26.6	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:** 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:** 01/12/2010 to 12/03/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	26	0	<4	3	11.5	51	0.6	1.6	5.5	7.8	10.1	12.4	12.7
pH (SU)	26	0	<5	4	15.4	74	0.6	1.6	5.5	7.8	10.1	12.4	12.7
	27	0	<6	27	100	>99.9	3.5	3.7	3.8	3.9	4	4.2	5
Spec. conductance (umhos/cm at 25°C)	27	0	>9	0	0		3.5	3.7	3.8	3.9	4	4.2	5
	27	0	N/A				40	45	65	71	78	84	87
Water Temperature (°C)	27	0	>32	0	0		1.3	2.6	6.9	11.2	19.3	22.7	22.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				3	6	8	10	14	21	28
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	11.2	20.1	25
Turbidity (NTU)	60	2	>50	1	1.7		1	1.1	1.7	2.6	4.8	10.8	55
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	81.6	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:** 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:** 01/12/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.6	4.9	5.7	7	9	10.8	12.2
pH (SU)	85	0	<5	9	10.6	51.8	3.6	4.9	5.7	7	9	10.8	12.2
	85	0	<6	2	2.4		5.9	6.2	6.6	6.8	6.9	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.2	6.6	6.8	6.9	7.1	7.4
	85	0	N/A				54	102	122	139	161	186	218
Water Temperature (°C)	85	0	>32	2	2.4		3.5	8	13.6	23.2	28.3	29.8	32.3
<b>Other</b>													
Chlorophyll a (ug/L)	60	2	>40	0	0		1	1	2	4	9	16	29
TSS (mg/L)	60	3	N/A				2.5	4	6	9	16	36	84
Turbidity (NTU)	60	0	>50	3	5		2.8	4.5	6.8	10	18.2	28.3	80
<b>Nutrients (mg/L)</b>													
NH3 as N	60	14	N/A				0.02	0.02	0.02	0.05	0.08	0.14	0.22
NO2 + NO3 as N	60	0	N/A				0.3	0.54	0.72	0.93	1.25	1.62	2.49
TKN as N	60	1	N/A				0.2	0.35	0.54	0.69	0.85	1.04	1.44
Total Phosphorus	60	0	N/A				0.07	0.11	0.14	0.2	0.24	0.29	0.6
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	30.5	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:** 01/12/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	26	0	<4	0	0		5.2	5.5	6.5	8.8	11.3	12.5	13.1
pH (SU)	26	0	<5	0	0		5.2	5.5	6.5	8.8	11.3	12.5	13.1
	27	0	<6	3	11.1	48.4	5.1	5.9	6.2	6.5	6.7	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	27	0	>9	0	0		5.1	5.9	6.2	6.5	6.7	7.1	7.4
	27	0	N/A				85	98	109	141	154	173	175
Water Temperature (°C)	27	0	>32	0	0		3.8	5.9	8.5	14.7	22.4	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:** 01/05/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	0	0		5.9	7	7.5	8.8	10.4	12	17
pH (SU)	58	0	<5	0	0		5.9	7	7.5	8.8	10.4	12	17
	59	0	<6	1	1.7		5.8	6.3	6.5	6.8	6.9	7	7.2
	59	0	>9	0	0		5.8	6.3	6.5	6.8	6.9	7	7.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				75	97	113	128	144	152	169
Water Temperature (°C)	59	0	>32	0	0		2.1	6	9	16.1	22.3	24.9	26.8
<b>Other</b>													
TSS (mg/L)	20	6	N/A				2.7	2.7	2.9	4	9	24.9	105
Turbidity (NTU)	39	0	>50	0	0		1.9	2.5	3	3.8	6.8	10.8	13.6
<b>Nutrients (mg/L)</b>													
NH3 as N	55	7	N/A				0.01	0.01	0.02	0.03	0.05	0.08	0.13
NO2 + NO3 as N	59	1	N/A				0.02	0.14	0.18	0.26	0.48	0.87	1.25
TKN as N	58	15	N/A				0.1	0.1	0.2	0.3	0.6	0.71	1.1
Total Phosphorus	55	0	N/A				0.03	0.05	0.06	0.08	0.11	0.17	0.36
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	352.8	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:** 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:** 01/11/2010 to 10/20/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	4	8.3		3.4	4	4.8	6.3	8.3	10	11.9
pH (SU)	48	0	<5	13	27.1	99.9	3.4	4	4.8	6.3	8.3	10	11.9
	48	0	<6	46	95.8	>99.9	3.1	3.4	3.9	4.1	4.5	5	6.1
Spec. conductance (umhos/cm at 25°C)	48	0	>9	0	0		3.1	3.4	3.9	4.1	4.5	5	6.1
	48	0	N/A				47	50	53	64	74	90	99
Water Temperature (°C)	48	0	>32	0	0		3.4	6.2	10.4	14.8	21.7	24.3	25
<b>Other</b>													
TSS (mg/L)	48	29	N/A				1	2	2.5	2.5	3	6	8
Turbidity (NTU)	48	3	>50	0	0		1	1	1.4	1.8	2.8	4	15
<b>Nutrients (mg/L)</b>													
NH3 as N	48	29	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.13
NO2 + NO3 as N	48	0	N/A				0.03	0.05	0.06	0.09	0.13	0.14	2.99
TKN as N	48	3	N/A				0.2	0.25	0.46	0.64	0.84	0.97	2.07
Total Phosphorus	48	7	N/A				0.02	0.02	0.02	0.05	0.06	0.08	0.48

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
48	65.4	2	4.2	

**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:** 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:** 01/11/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.8	5.8	6.3	7	9.4	10.9	12.7
pH (SU)	85	0	<5	2	2.4		4.8	5.8	6.3	7	9.4	10.9	12.7
	85	0	<6	5	5.9		5.6	6.2	6.5	6.7	6.9	7	7.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.6	6.2	6.5	6.7	6.9	7	7.1
	85	0	N/A				64	97	120	139	156	184	205
Water Temperature (°C)	85	0	>32	0	0		3.4	8.1	13.4	23.4	28.2	29.9	31.7
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2.5	4	7	11	19.5	50	129
Turbidity (NTU)	60	0	>50	4	6.7		2.9	5.3	8	10.8	16.6	38.1	97
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.05	0.09	0.12	0.2
NO2 + NO3 as N	60	0	N/A				0.4	0.53	0.67	0.9	1.16	1.39	1.82
TKN as N	60	3	N/A				0.2	0.29	0.53	0.69	0.84	0.99	1.16
Total Phosphorus	60	0	N/A				0.07	0.11	0.14	0.17	0.24	0.3	0.52
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	43.8	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:** 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:** 01/05/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	1	1.7		2.9	5.4	6.6	7.8	9.9	12.1	17.5
	58	0	<5	3	5.2		2.9	5.4	6.6	7.8	9.9	12.1	17.5
pH (SU)	59	0	<6	0	0		6.2	6.5	6.6	6.9	7.1	7.2	7.6
	59	0	>9	0	0		6.2	6.5	6.6	6.9	7.1	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				71	113	147	172	202	230	277
Water Temperature (°C)	59	0	>32	0	0		2.4	5.8	9.5	15.9	20.8	25.1	28
<b>Other</b>													
TSS (mg/L)	19	4	N/A				2.7	2.7	3.1	4	8.1	30	32.1
Turbidity (NTU)	39	0	>50	0	0		1.8	3	3.6	5.1	6.2	10.7	12.8
<b>Nutrients (mg/L)</b>													
NH3 as N	55	11	N/A				0.01	0.01	0.02	0.04	0.08	0.14	0.62
NO2 + NO3 as N	59	10	N/A				0.02	0.02	0.03	0.16	0.29	0.77	1.36
TKN as N	59	11	N/A				0.1	0.1	0.2	0.4	0.6	0.9	1.8
Total Phosphorus	55	0	N/A				0.05	0.06	0.07	0.15	0.19	0.22	0.37
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	393.7	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:** 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:** 01/11/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	2	2.4		3.8	4.7	5.4	6.4	8.9	10.4	12.2
pH (SU)	85	0	<5	12	14.1	85.9	3.8	4.7	5.4	6.4	8.9	10.4	12.2
	85	0	<6	3	3.5		5.7	6.1	6.4	6.7	6.8	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.7	6.1	6.4	6.7	6.8	6.9	7.1
	85	0	N/A				61	95	118	135	150	174	215
Water Temperature (°C)	85	0	>32	2	2.4		3.3	8.5	13.2	23.1	28.2	30.4	32.5
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2.5	3.1	4	8	16.2	29.8	131
Turbidity (NTU)	60	0	>50	2	3.3		2.2	4.8	6.8	9.7	15	32.7	65.5
<b>Nutrients (mg/L)</b>													
NH3 as N	60	14	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	0.66	0.89	1.02	1.36	2.1
TKN as N	60	2	N/A				0.2	0.32	0.52	0.68	0.83	0.97	1.18
Total Phosphorus	60	0	N/A				0.07	0.11	0.13	0.16	0.2	0.28	0.39
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	37.3	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:** 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:** 01/11/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.8	4.8	5.5	6.7	8.8	10.5	12.5
pH (SU)	85	0	<5	9	10.6	51.8	3.8	4.8	5.5	6.7	8.8	10.5	12.5
	85	0	<6	4	4.7		5.5	6.3	6.5	6.7	6.9	7	9.8
Spec. conductance (umhos/cm at 25°C)	85	0	>9	1	1.2		5.5	6.3	6.5	6.7	6.9	7	9.8
	85	0	N/A				62	95	118	134	150	171	200
Water Temperature (°C)	85	0	>32	3	3.5		3.4	8.6	13.3	23.6	28.2	30.5	32.5
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2	4	5	8	17	32.7	154
Turbidity (NTU)	60	0	>50	2	3.3		2.3	5.1	6.6	10.2	15.5	31.1	101
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.05	0.08	0.12	0.2
NO2 + NO3 as N	60	0	>10	0	0		0.13	0.51	0.6	0.82	1.02	1.35	1.78
TKN as N	60	1	N/A				0.2	0.35	0.55	0.67	0.83	0.95	1.33
Total Phosphorus	60	0	N/A				0.07	0.1	0.12	0.16	0.21	0.3	0.42
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	32	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:** 01/11/2010 to 12/01/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	2	2.4		3.2	4.9	5.7	6.8	9.1	10.8	15.8
pH (SU)	85	0	<5	9	10.6	51.8	3.2	4.9	5.7	6.8	9.1	10.8	15.8
	85	0	<6	3	3.5		5.7	6.3	6.6	6.8	6.9	7	9.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	1	1.2		5.7	6.3	6.6	6.8	6.9	7	9.2
	85	0	N/A				63	95	114	134	150	172	213
Water Temperature (°C)	85	0	>32	2	2.4		3.6	8.8	13.6	23.6	28.4	30.6	33.6
<b>Other</b>													
Chlorophyll a (ug/L)	60	4	>40	0	0		1	1	2	5	11	31	39
TSS (mg/L)	60	4	N/A				2.5	3.1	6	8	15.8	32.4	171
Turbidity (NTU)	60	0	>50	2	3.3		1.5	5	7.2	10	15.7	34.3	114
<b>Nutrients (mg/L)</b>													
NH3 as N	60	16	N/A				0.02	0.02	0.02	0.04	0.07	0.09	0.14
NO2 + NO3 as N	60	0	>10	0	0		0.42	0.5	0.62	0.84	1.02	1.33	1.85
TKN as N	60	2	N/A				0.2	0.34	0.5	0.67	0.9	1	1.32
Total Phosphorus	60	0	N/A				0.07	0.1	0.12	0.16	0.22	0.27	0.37
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	31.5	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 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:** 01/19/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	N/A				4.6	5.8	6.7	8.2	10	11.4	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	0.05	0.06	0.07	0.07	0.09
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				78	95	114	137	150	171	205
Water Temperature (°C)	57	0	>32	1	1.8		5.1	8.3	11.6	20.2	27	30.3	32.6
<b>Other</b>													
Chloride (mg/L)	2	0	>230	0	0		17	17	17	18	20	20	20
Chlorophyll a (ug/L)	3	0	>40	1	33.3		3	3	3	8	83	83	83
Fluoride (mg/L)	3	3	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	20	0	>100	0	0		22	22	24	26	30	32	33
Sulfate (mg/L)	3	0	>250	0	0		12	12	12	13	16	16	16
TSS (mg/L)	20	7	N/A				6.2	6.2	7.6	12	25	55.1	88
Turbidity (NTU)	57	0	>50	1	1.8		3.9	6.4	9.4	15	18.5	28.4	60
<b>Nutrients (mg/L)</b>													
NH3 as N	2	1	N/A				0.02	0.02	0.02	0.04	0.06	0.06	0.06
NO2 + NO3 as N	2	0	>10	0	0		0.62	0.62	0.62	0.8	0.97	0.97	0.97
TKN as N	2	0	N/A				0.6	0.6	0.6	1.05	1.5	1.5	1.5
Total Phosphorus	2	0	N/A				0.19	0.19	0.19	0.2	0.21	0.21	0.21

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
57	18.1	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 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:** 01/06/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	95	0	N/A				4.5	5.7	6.5	7.3	9.1	10.9	13.7
pH (SU)	98	0	<4.3	0	0		5.9	6.4	6.6	6.8	6.9	7.1	7.6
	98	0	>9	0	0		5.9	6.4	6.6	6.8	6.9	7.1	7.6
Spec. conductance (umhos/cm at 25°C)	98	0	N/A				78	107	121	140	154	170	210
Water Temperature (°C)	98	0	>32	1	1		4.4	9.1	16.2	25.2	28.9	30.7	32.2
<b>Other</b>													
Chlorophyll a (ug/L)	41	1	>40	0	0		1	1	2	3	7	14	28
TSS (mg/L)	59	1	N/A				2.8	3.9	5.5	8.7	15.6	23.8	55.6
Turbidity (NTU)	59	0	>50	0	0		3	5.9	7.1	11.4	18.1	26.1	39.6
<b>Nutrients (mg/L)</b>													
NH3 as N	57	0	N/A				0.01	0.02	0.03	0.05	0.08	0.12	0.26
NO2 + NO3 as N	59	1	>10	0	0		0.02	0.33	0.55	0.81	1.02	1.37	1.88
TKN as N	58	13	N/A				0.1	0.1	0.2	0.4	0.6	0.8	2
Total Phosphorus	56	1	N/A				0.02	0.11	0.13	0.16	0.2	0.25	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	26.6	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:** 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:** 01/20/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				1.6	2.3	3.4	5.1	7.6	9.6	11.5
pH (SU)	58	0	<4.3	0	0		5.8	6.3	6.5	6.7	6.9	7.1	7.5
	58	0	>9	0	0		5.8	6.3	6.5	6.7	6.9	7.1	7.5
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				56	84	102	134	164	176	1810
Water Temperature (°C)	58	0	>32	0	0		4.8	7.4	12.1	18.5	24.4	27	28.6
<b>Other</b>													
TSS (mg/L)	58	32	N/A				2	2.7	2.7	2.8	3.7	5	7.3
<b>Nutrients (mg/L)</b>													
NH3 as N	56	4	N/A				0.01	0.03	0.08	0.11	0.21	0.64	2.95
NO2 + NO3 as N	58	4	N/A				0.02	0.03	0.09	0.17	0.32	0.63	1.23
TKN as N	57	5	N/A				0.1	0.18	0.2	0.5	0.8	1.1	3.1
Total Phosphorus	53	14	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.09
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	89	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:** 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:** 01/12/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	N/A				1.3	2.1	2.8	4.1	7.3	8.6	12.7
pH (SU)	56	0	<4.3	0	0		5.7	5.8	6	6.1	6.2	6.3	6.7
	56	0	>9	0	0		5.7	5.8	6	6.1	6.2	6.3	6.7
Salinity (ppt)	55	0	N/A				0.02	0.03	0.04	0.05	0.06	0.07	0.09
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				63	91	101	132	151	159	188
Water Temperature (°C)	56	0	>32	0	0		1.7	8.7	12.5	19.2	25	27.2	28.8
<b>Other</b>													
Chlorophyll a (ug/L)	2	0	>40	0	0		2	2	2	11	20	20	20
Hardness (mg/L)	19	0	N/A				30	34	38	45	49	52	55
TSS (mg/L)	18	18	N/A				6.2	6.2	6.2	6.2	7.1	12	12
Turbidity (NTU)	56	0	>50	0	0		2	2.6	3.4	4.4	5.8	7.7	9.6
<b>Nutrients (mg/L)</b>													
NH3 as N	56	2	N/A				0.02	0.04	0.07	0.1	0.16	0.32	1.8
NO2 + NO3 as N	56	0	N/A				0.02	0.06	0.08	0.16	0.38	0.68	1.2
TKN as N	56	1	N/A				0.2	0.38	0.48	0.66	0.76	1	4.4
Total Phosphorus	56	8	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.12

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	57	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 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:** 01/06/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	95	0	N/A				4.6	5.3	5.7	6.7	8.7	10.8	13.3
pH (SU)	98	0	<4.3	0	0		6.2	6.6	6.8	6.9	7	7.2	7.6
	98	0	>9	0	0		6.2	6.6	6.8	6.9	7	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	98	0	N/A				97	114	136	170	243	309	1239
Water Temperature (°C)	98	0	>32	0	0		4.5	9.2	16.5	24.8	28.8	30.6	31.7
<b>Other</b>													
TSS (mg/L)	59	0	N/A				2.9	3.8	5.9	8	14.9	25	62
<b>Nutrients (mg/L)</b>													
NH3 as N	58	0	N/A				0.01	0.04	0.06	0.09	0.12	0.18	0.28
NO2 + NO3 as N	59	1	N/A				0.02	0.32	0.55	0.77	0.92	1.32	1.71
TKN as N	58	10	N/A				0.1	0.1	0.3	0.45	0.62	0.8	1.5
Total Phosphorus	56	0	N/A				0.04	0.12	0.14	0.17	0.21	0.26	0.32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	32.9	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:** 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:** 01/19/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				4.4	5.6	6.1	7	9.7	11.1	12.4
pH (SU)	56	0	<4.3	0	0		6	6.3	6.4	6.7	6.9	7.2	7.4
	56	0	>9	0	0		6	6.3	6.4	6.7	6.9	7.2	7.4
Salinity (ppt)	57	0	N/A				0.03	0.04	0.05	0.07	0.1	0.15	0.22
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				78	105	120	162	212	324	436
Water Temperature (°C)	58	0	>32	1	1.7		5.4	8.5	11.8	20.6	26.8	30.7	32.3
<b>Other</b>													
Chlorophyll a (ug/L)	2	0	>40	0	0		15	15	15	17	19	19	19
Hardness (mg/L)	21	0	N/A				20	23	26	29	32	37	43
TSS (mg/L)	21	12	N/A				6.2	6.2	6.2	8	16.5	32	71
Turbidity (NTU)	58	0	>50	1	1.7		3.3	5.9	8.3	11	16	26.6	65
<b>Nutrients (mg/L)</b>													
NH3 as N	1	0	N/A				0.15	0.15	0.15	0.15	0.15	0.15	0.15
NO2 + NO3 as N	1	0	N/A				0.48	0.48	0.48	0.48	0.48	0.48	0.48
TKN as N	1	0	N/A				0.78	0.78	0.78	0.78	0.78	0.78	0.78
Total Phosphorus	1	0	N/A				0.17	0.17	0.17	0.17	0.17	0.17	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	21.6	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 INTAKE NR HOOPER 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:** 01/06/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	95	0	N/A				3.6	4.2	4.6	5.7	8.3	13.2
pH (SU)	97	0	<4.3	0	0		6.2	6.6	6.7	6.9	7	7.3
	97	0	>9	0	0		6.2	6.6	6.7	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	98	0	N/A				93	130	152	202	256	417
Water Temperature (°C)	98	0	>32	0	0		4.4	9.1	16	24.4	28.5	31.8
<b>Other</b>												
TSS (mg/L)	59	1	N/A				3	5.4	6.6	10.3	15.9	52
<b>Nutrients (mg/L)</b>												
NH3 as N	58	1	N/A				0.01	0.04	0.06	0.08	0.12	0.23
NO2 + NO3 as N	59	1	N/A				0.02	0.4	0.51	0.68	0.85	1.51
TKN as N	57	13	N/A				0.1	0.1	0.2	0.5	0.7	1
Total Phosphorus	56	0	N/A				0.04	0.1	0.13	0.16	0.2	0.38
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
59	39.1	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:** 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:** 01/05/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				0.3	0.6	2.6	4.3	7.1	11.3	14.9
pH (SU)	59	0	<4.3	0	0		5.3	5.8	6	6.2	6.3	6.5	7.2
	59	0	>9	0	0		5.3	5.8	6	6.2	6.3	6.5	7.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				60	76	83	96	123	326	514
Water Temperature (°C)	59	0	>32	0	0		0.3	5.4	7.5	16.1	23.4	25.8	31.3
<b>Other</b>													
TSS (mg/L)	20	9	N/A				2	2	2.7	5.1	10.7	18.3	22.3
Turbidity (NTU)	39	0	>50	2	5.1		0.8	0.9	1.3	2.4	11.4	39.6	75.3
<b>Nutrients (mg/L)</b>													
NH3 as N	58	15	N/A				0.01	0.01	0.02	0.03	0.1	0.28	1
NO2 + NO3 as N	59	7	N/A				0.02	0.02	0.04	0.07	0.13	0.19	1.01
TKN as N	58	7	N/A				0.1	0.1	0.3	0.5	1	1.31	2
Total Phosphorus	55	7	N/A				0.02	0.02	0.03	0.07	0.12	0.14	0.24
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	117.1	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:** 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:** 01/25/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	22	0	N/A				0.8	2.2	3.5	5.6	10.2	13.5
pH (SU)	22	0	<4.3	0	0		5.1	5.5	5.8	6	6.2	7.1
	22	0	>9	0	0		5.1	5.5	5.8	6	6.2	7.1
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				71	76	85	93	104	118
Water Temperature (°C)	23	0	>32	0	0		2.5	3.6	6.1	12.4	22.2	26.3
<b>Other</b>												
Hardness (mg/L)	20	0	N/A				17	18	21	25	36	84
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	7.6	12
Turbidity (NTU)	55	11	>50	0	0		1	1	1.2	1.9	3.6	32
<b>Nutrients (mg/L)</b>												
NH3 as N	55	38	N/A				0.02	0.02	0.02	0.02	0.02	0.28
NO2 + NO3 as N	55	22	N/A				0.02	0.02	0.02	0.02	0.16	2.1
TKN as N	55	0	N/A				0.36	0.42	0.54	0.72	0.95	2
Total Phosphorus	55	4	N/A				0.02	0.02	0.02	0.04	0.09	0.27

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	92.8	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:** 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:** 01/25/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	N/A				5.1	5.4	5.8	8.2	11.4	12.3	13.2
pH (SU)	22	0	<4.3	0	0		5.1	5.8	6.2	6.6	6.7	6.9	7.3
	22	0	>9	0	0		5.1	5.8	6.2	6.6	6.7	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				77	82	90	99	108	122	127
Water Temperature (°C)	23	0	>32	0	0		4	4.5	7.7	13	22.5	25.4	26.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				19	20	22	23	27	30	34
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	11.4	30
Turbidity (NTU)	57	1	>50	0	0		1	1.6	2.1	2.8	4	7.2	12
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	70.3	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:** 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:** 01/25/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	22	0	N/A				0.1	2.2	3.5	5.1	10.3	12.6
pH (SU)	22	0	<4.3	0	0		5.1	5.8	6	6.2	6.4	7.2
	22	0	>9	0	0		5.1	5.8	6	6.2	6.4	7.2
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				90	91	96	108	119	129
Water Temperature (°C)	23	0	>32	0	0		3.7	4.2	6.5	12.5	22.3	25.8
<b>Other</b>												
Hardness (mg/L)	20	0	N/A				18	19	23	29	39	74
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	8.6	14.2	341
Turbidity (NTU)	56	7	>50	0	0		1	1	1.6	3.3	8.5	36
<b>Nutrients (mg/L)</b>												
NH3 as N	57	42	N/A				0.02	0.02	0.02	0.02	0.02	0.13
NO2 + NO3 as N	55	38	N/A				0.02	0.02	0.02	0.02	0.08	2.2
TKN as N	57	0	N/A				0.37	0.44	0.59	0.84	1.15	7.5
Total Phosphorus	57	9	N/A				0.02	0.02	0.02	0.05	0.1	1.3
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
56	71	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:** 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:** 01/05/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				2.9	4.6	5.4	6.8	9.2	11.3	16.8
pH (SU)	59	0	<4.3	0	0		5.8	6	6.3	6.5	6.7	7	7.2
	59	0	>9	0	0		5.8	6	6.3	6.5	6.7	7	7.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				92	116	132	166	240	367	559
Water Temperature (°C)	59	0	>32	0	0		0.1	5.4	8.2	16	23.1	26.1	29
<b>Other</b>													
TSS (mg/L)	58	27	N/A				1.3	2.5	2.7	3.2	4.7	10.3	55
<b>Nutrients (mg/L)</b>													
NH3 as N	58	8	N/A				0.01	0.02	0.02	0.04	0.07	0.12	0.39
NO2 + NO3 as N	59	0	N/A				0.03	0.04	0.09	0.22	0.74	1.4	2.97
TKN as N	58	5	N/A				0.1	0.1	0.3	0.5	0.8	1.1	1.7
Total Phosphorus	55	0	N/A				0.03	0.11	0.14	0.28	0.55	0.67	1.65
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	107.2	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:** 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:** 01/05/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				4.8	6	6.7	8.6	10.3	12.3	14.1
pH (SU)	59	0	<4.3	0	0		5.1	5.8	6.1	6.5	6.6	6.8	6.9
	59	0	>9	0	0		5.1	5.8	6.1	6.5	6.6	6.8	6.9
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				69	79	90	97	102	112	166
Water Temperature (°C)	59	0	>32	0	0		1	5.8	8.7	16	23.1	26	27.5
<b>Other</b>													
TSS (mg/L)	20	13	N/A				2	2	2.6	2.8	4	7.3	10.1
Turbidity (NTU)	39	0	>50	0	0		1.3	1.7	2.2	3.1	3.8	8.1	26.3
<b>Nutrients (mg/L)</b>													
NH3 as N	56	10	N/A				0.01	0.01	0.02	0.03	0.05	0.07	0.1
NO2 + NO3 as N	59	1	N/A				0.02	0.15	0.21	0.3	0.47	1.22	1.75
TKN as N	58	7	N/A				0.1	0.1	0.3	0.5	0.62	0.91	1.2
Total Phosphorus	55	2	N/A				0.02	0.03	0.03	0.05	0.1	0.14	1.25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	104.6	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:** 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:** 01/25/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	22	0	N/A				6.2	6.4	7.2	8.7	10.8	13.1
pH (SU)	22	0	<4.3	0	0		5.1	6	6.5	6.7	6.9	7.3
	22	0	>9	0	0		5.1	6	6.5	6.7	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				89	120	132	146	161	175
Water Temperature (°C)	23	0	>32	0	0		4.1	4.4	8.3	12.8	22.5	25.8
<b>Other</b>												
Hardness (mg/L)	20	0	N/A				32	33	39	42	46	54
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	8.8	15.5	291
Turbidity (NTU)	55	0	>50	0	0		2	2.6	3.7	5.2	8.1	37
<b>Nutrients (mg/L)</b>												
NH3 as N	55	4	N/A				0.02	0.02	0.03	0.04	0.07	0.14
NO2 + NO3 as N	55	0	N/A				0.22	0.34	0.56	0.81	1	2.5
TKN as N	55	0	N/A				0.44	0.58	0.61	0.74	0.93	1.2
Total Phosphorus	55	0	N/A				0.04	0.05	0.07	0.12	0.18	0.28

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	177.4	10	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:** 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:** 01/05/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	N/A				4.1	6	6.8	9	10.4	12.2	13.8
pH (SU)	54	0	<4.3	0	0		5.6	5.9	6.2	6.6	6.8	7.1	7.3
	54	0	>9	0	0		5.6	5.9	6.2	6.6	6.8	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				96	114	129	142	152	162	168
Water Temperature (°C)	54	0	>32	0	0		1.6	5.9	8.5	15.3	23.2	25.8	27.7
<b>Other</b>													
TSS (mg/L)	19	8	N/A				2	2	2.7	2.9	6.4	9.7	15.4
Turbidity (NTU)	35	0	>50	0	0		1.8	2.4	3	4	5.7	7.3	12
<b>Nutrients (mg/L)</b>													
NH3 as N	50	4	N/A				0.01	0.02	0.03	0.04	0.07	0.1	0.42
NO2 + NO3 as N	54	0	N/A				0.03	0.37	0.62	0.84	1.15	1.72	2.39
TKN as N	53	8	N/A				0.1	0.1	0.3	0.5	0.7	0.8	1.4
Total Phosphorus	50	1	N/A				0.02	0.05	0.06	0.1	0.14	0.17	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	119.5	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:** 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:** 01/25/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	N/A				4.8	5.9	6.3	8.8	10.7	12.7	14
pH (SU)	22	0	<4.3	0	0		5.2	5.8	6.4	6.6	6.8	7.1	7.3
	22	0	>9	0	0		5.2	5.8	6.4	6.6	6.8	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				79	93	108	124	135	164	173
Water Temperature (°C)	23	0	>32	0	0		3.9	4.2	8.6	12.6	22.3	25.5	26.3
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				22	22	25	27	29	38	40
TSS (mg/L)	19	15	N/A				6.2	6.2	6.2	6.2	6.2	40	51
Turbidity (NTU)	54	0	>50	0	0		1	2	2.6	3.9	6.2	8.2	12
<b>Nutrients (mg/L)</b>													
NH3 as N	55	14	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.12
NO2 + NO3 as N	55	0	N/A				0.03	0.26	0.59	0.85	1.4	2.14	3.2
TKN as N	55	0	N/A				0.4	0.5	0.6	0.74	0.86	1.1	1.5
Total Phosphorus	55	0	N/A				0.02	0.03	0.05	0.08	0.14	0.2	0.32

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	101.9	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:** 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:** 01/12/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	24	0	N/A				3	3.8	5.5	8.4	10.2	14
pH (SU)	25	0	<4.3	0	0		4.4	4.9	5.1	5.4	5.7	6.6
	25	0	>9	0	0		4.4	4.9	5.1	5.4	5.7	6.6
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				51	57	64	73	78	88
Water Temperature (°C)	25	0	>32	0	0		1.3	4.6	7.5	16.7	23	27
<b>Other</b>												
Hardness (mg/L)	19	0	N/A				9	12	15	17	25	42
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	6.8	12
Turbidity (NTU)	58	2	>50	0	0		1	1.2	1.6	2.7	4.3	11
<b>Nutrients (mg/L)</b>												
NH3 as N	58	30	N/A				0.02	0.02	0.02	0.02	0.03	0.05
NO2 + NO3 as N	58	2	N/A				0.02	0.03	0.06	0.09	0.18	0.54
TKN as N	58	0	N/A				0.37	0.44	0.62	0.77	0.97	1.7
Total Phosphorus	58	5	N/A				0.02	0.02	0.02	0.05	0.06	0.11
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
58	78.2	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:** 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 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	N/A				3.2	5.4	6.3	7.6	8.9	11	11.4
pH (SU)	21	0	<4.3	1	4.8		3.9	5.2	5.5	6	6.3	6.5	6.6
	21	0	>9	0	0		3.9	5.2	5.5	6	6.3	6.5	6.6
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				58	62	66	74	84	90	95
Water Temperature (°C)	21	0	>32	0	0		5.2	6.3	10.2	18	23.4	24.9	26.3
<b>Other</b>													
Turbidity (NTU)	21	0	>50	0	0		1.4	1.7	1.9	2.6	3.8	4.5	23
<b>Nutrients (mg/L)</b>													
NH3 as N	21	6	N/A				0.02	0.02	0.02	0.04	0.06	0.09	0.09
NO2 + NO3 as N	21	2	N/A				0.02	0.03	0.1	0.19	0.29	0.44	0.56
TKN as N	21	5	N/A				0.1	0.1	0.1	0.5	0.65	0.78	1.5
Total Phosphorus	19	1	N/A				0.02	0.02	0.03	0.05	0.07	0.07	0.12

<b>Fecal Coliform Screening(#/100mL)</b>												
# results:	Geomean:	# > 400:	% > 400:	%Conf:								
21	131.9	2	9.5									

**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:** 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:** 01/20/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	N/A				3.2	4.1	5.1	6.4	8	9.9	11.1
pH (SU)	51	2	<4.3	50	98	> 99.9	3.3	3.6	3.8	3.9	4	4.1	5.3
	51	2	>9	0	0		3.3	3.6	3.8	3.9	4	4.1	5.3
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				56	66	69	72	83	99	104
Water Temperature (°C)	56	0	>32	0	0		4.1	5.2	9.8	15.4	21.6	24	26.4
<b>Other</b>													
TSS (mg/L)	17	17	N/A				2	2	2.4	2.7	3	3	3
Turbidity (NTU)	39	0	>50	0	0		0.8	1.1	1.3	1.5	2.2	2.6	3.8
<b>Nutrients (mg/L)</b>													
NH3 as N	55	9	N/A				0.01	0.01	0.02	0.04	0.08	0.12	0.25
NO2 + NO3 as N	56	26	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.82
TKN as N	53	2	N/A				0.1	0.4	0.6	0.7	1	1.2	2.5
Total Phosphorus	53	18	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.12
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	54.4	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:** 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:** 01/20/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				2.9	4	4.6	6.1	9	10.9	11.7
pH (SU)	59	0	<4.3	0	0		4.8	5.7	5.9	6.2	6.4	6.6	6.8
	59	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)	59	0	N/A				66	76	87	97	117	136	154
Water Temperature (°C)	59	0	>32	0	0		5.2	6.7	11.7	18.9	24.5	28.7	30.8
<b>Other</b>													
TSS (mg/L)	59	49	N/A				2	2.6	2.7	2.8	3	3.4	14.7
<b>Nutrients (mg/L)</b>													
NH3 as N	57	10	N/A				0.01	0.01	0.02	0.02	0.04	0.07	0.18
NO2 + NO3 as N	59	6	N/A				0.02	0.02	0.15	0.22	0.31	0.48	1.03
TKN as N	58	4	N/A				0.1	0.19	0.4	0.5	0.8	0.91	1.6
Total Phosphorus	54	1	N/A				0.02	0.04	0.05	0.1	0.12	0.14	0.36
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	66.5	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:** 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:** 01/19/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				1	3.4	3.9	5.1	8.4	9.4	11.5
pH (SU)	56	0	<4.3	0	0		4.8	5.4	5.8	6.2	6.5	6.8	7
	56	0	>9	0	0		4.8	5.4	5.8	6.2	6.5	6.8	7
Salinity (ppt)	57	0	N/A				0.01	0.02	0.03	0.04	0.06	0.1	0.14
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				52	68	83	104	144	212	281
Water Temperature (°C)	58	0	>32	0	0		4.6	8.5	12.4	19.4	25	29.1	31.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	11	21	24	25	27	33
TSS (mg/L)	21	18	N/A				6.2	6.2	6.2	6.2	6.2	11.5	31
Turbidity (NTU)	58	0	>50	0	0		1.5	2.5	3.3	4.5	5.6	8.3	45
<b>Nutrients (mg/L)</b>													
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				0.35	0.35	0.35	0.35	0.35	0.35	0.35
TKN as N	1	0	N/A				0.78	0.78	0.78	0.78	0.78	0.78	0.78
Total Phosphorus	1	0	N/A				0.16	0.16	0.16	0.16	0.16	0.16	0.16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	49.3	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:** 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:** 01/19/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				3	3.9	4.4	5.7	9	10.1	11.6
pH (SU)	56	0	<4.3	0	0		5.5	6	6.3	6.6	6.8	7	7.2
	56	0	>9	0	0		5.5	6	6.3	6.6	6.8	7	7.2
Salinity (ppt)	57	0	N/A				0.03	0.04	0.05	0.08	0.1	0.14	0.27
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				81	92	126	174	224	307	1587
Water Temperature (°C)	58	0	>32	0	0		4.8	8.2	12	19.9	26.3	30	31.3
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	22	25	29	33	35	37
TSS (mg/L)	21	10	N/A				6.2	6.2	6.2	8.8	14	22.8	60
Turbidity (NTU)	56	0	>50	1	1.8		3.3	5.7	7.3	8.9	12	21	70
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	33.5	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 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:** 01/06/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	95	0	N/A				2.9	3.8	4.2	5.4	7.7	10.2	12.7
pH (SU)	98	0	<4.3	0	0		5.8	6.4	6.7	6.8	6.9	7	7.3
	98	0	>9	0	0		5.8	6.4	6.7	6.8	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	98	0	N/A				79	107	142	190	254	475	5161
Water Temperature (°C)	98	0	>32	0	0		3.5	8.9	16.7	24.6	28.2	30.3	32
<b>Other</b>													
TSS (mg/L)	59	0	N/A				3	4.7	6	8.6	12.3	15.2	23.3
<b>Nutrients (mg/L)</b>													
NH3 as N	57	0	N/A				0.01	0.03	0.05	0.06	0.09	0.12	0.16
NO2 + NO3 as N	59	1	N/A				0.02	0.27	0.42	0.58	0.77	0.98	1.33
TKN as N	58	11	N/A				0.1	0.1	0.3	0.45	0.7	0.8	1.9
Total Phosphorus	56	0	N/A				0.04	0.09	0.11	0.14	0.17	0.2	0.22
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	35.6	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 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:** 01/19/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<5	24	42.1	> 99.9	2.8	3.6	4.4	5.8	8.5	10	11.8
pH (SU)	56	0	<6.8	27	48.2	> 99.9	5.5	6.1	6.4	6.8	7	7.1	7.3
	56	0	>8.5	0	0		5.5	6.1	6.4	6.8	7	7.1	7.3
Salinity (ppt)	57	0	N/A				0.03	0.04	0.06	0.14	5.7	8.01	16.49
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				88	99	139	281	8327	13914	26952
Water Temperature (°C)	58	0	>32	0	0		5.8	8.8	12.2	20	26	29.7	31.2
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		5	5	5	5	5	5	5
TSS (mg/L)	21	4	N/A				6.2	7.2	8.9	12	15.5	33.6	40
Turbidity (NTU)	58	0	>25	5	8.6		6.2	7.3	9.1	13	17.2	24.3	50
<b>Nutrients (mg/L)</b>													
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	0	N/A				0.42	0.42	0.42	0.42	0.42	0.42	0.42
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				0.09	0.09	0.09	0.09	0.09	0.09	0.09
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	35.2	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:** 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:** 01/14/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	95	0	<5	46	48.4	> 99.9	2.9	3.7	4.1	5.2	7.2	10.1	12.9
pH (SU)	97	0	<6.8	24	24.7	> 99.9	5.8	6.5	6.8	6.9	7.1	7.4	7.6
	97	0	>8.5	0	0		5.8	6.5	6.8	6.9	7.1	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	97	0	N/A				73	107	164	2380	9590	18563	27372
Water Temperature (°C)	97	0	>32	0	0		3.2	9	15.2	25	28.4	30.4	31.7
<b>Other</b>													
TSS (mg/L)	59	0	N/A				5.4	7	10.3	14.5	20.5	28.6	77.6
Turbidity (NTU)	59	0	>25	5	8.5		2.6	7.2	8.9	11.5	16	23.2	53.7
<b>Nutrients (mg/L)</b>													
NH3 as N	58	3	N/A				0.01	0.02	0.04	0.06	0.09	0.13	0.19
NO2 + NO3 as N	59	0	N/A				0.02	0.32	0.43	0.56	0.69	0.79	1.14
TKN as N	58	5	N/A				0.1	0.1	0.3	0.5	0.6	0.8	1.2
Total Phosphorus	57	0	N/A				0.04	0.09	0.11	0.14	0.16	0.21	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	51.4	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 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:** 01/14/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	96	0	<5	41	42.7	> 99.9	2.9	3.5	4.3	5.3	7.4	10.1	12.4
pH (SU)	98	0	<6.8	22	22.4	> 99.9	5.9	6.6	6.8	7	7.2	7.4	7.6
	98	0	>8.5	0	0		5.9	6.6	6.8	7	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	98	0	N/A				83	121	438	5392	13885	21694	32888
Water Temperature (°C)	98	0	>32	1	1		3.3	9.2	16.2	25.4	28.6	30.7	32.4
<b>Other</b>													
TSS (mg/L)	59	0	N/A				4.1	6.9	9.2	13	18.4	25.4	45.3
<b>Nutrients (mg/L)</b>													
NH3 as N	58	3	N/A				0.01	0.02	0.04	0.07	0.09	0.12	0.17
NO2 + NO3 as N	59	1	N/A				0.02	0.2	0.38	0.52	0.61	0.78	1.29
TKN as N	58	6	N/A				0.1	0.19	0.38	0.5	0.6	0.81	1.3
Total Phosphorus	57	0	N/A				0.04	0.08	0.1	0.12	0.15	0.16	0.39
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	49.2	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				0.3	1.2	3.4	6	9.4	12	13.8
pH (SU)	58	0	<4.3	0	0		5.9	6.1	6.3	6.5	6.7	6.8	7.1
	58	0	>9	0	0		5.9	6.1	6.3	6.5	6.7	6.8	7.1
Salinity (ppt)	57	0	N/A				0.11	0.24	0.35	0.7	1.27	1.7	2.48
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				231	466	680	1346	2348	3093	4530
Water Temperature (°C)	58	0	>32	0	0		4.5	8.9	13.4	19.4	25.9	28.2	30.4
<b>Other</b>													
Chloride (mg/L)	58	0	>230	36	62.1	> 99.9	49	110	160	356	690	902	1300
Chlorophyll a (ug/L)	4	0	>40	0	0		5	5	5	6	19	23	23
Fluoride (mg/L)	57	52	>1.8	0	0		0.2	0.4	0.4	0.4	10	20	20
Sulfate (mg/L)	58	18	N/A				12	15	19	22	50	100	100
<b>Nutrients (mg/L)</b>													
NH3 as N	4	0	N/A				0.03	0.03	0.04	0.08	0.15	0.17	0.17
NO2 + NO3 as N	4	0	N/A				1.9	1.9	2.05	3.1	4.75	5.1	5.1
TKN as N	4	0	N/A				0.49	0.49	0.54	0.72	0.94	1	1
Total Phosphorus	4	0	N/A				0.16	0.16	0.17	0.34	0.7	0.77	0.77
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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:** 01/13/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				0.3	1	2.4	4.8	7.9	10	12.1
pH (SU)	59	0	<4.3	0	0		5.9	6.2	6.4	6.6	6.7	6.9	7.1
	59	0	>9	0	0		5.9	6.2	6.4	6.6	6.7	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				168	267	337	605	733	1014	2088
Water Temperature (°C)	59	0	>32	0	0		3.1	5.4	9.9	16.8	24.8	26.8	28.2
<b>Other</b>													
TSS (mg/L)	59	32	N/A				2	2.6	2.7	2.8	4.2	9.5	21.6
<b>Nutrients (mg/L)</b>													
NH3 as N	57	1	N/A				0.01	0.02	0.04	0.08	0.13	0.27	0.46
NO2 + NO3 as N	59	4	N/A				0.02	0.03	0.1	0.32	0.9	2.88	3.52
TKN as N	56	4	N/A				0.1	0.17	0.3	0.5	0.8	1	1.1
Total Phosphorus	55	1	N/A				0.02	0.07	0.09	0.14	0.29	0.41	0.84
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	124.6	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				0	0.1	1.4	4.6	7.8	10.5	11.6
pH (SU)	58	0	<4.3	0	0		5.6	5.9	6	6.2	6.4	6.6	6.9
	58	0	>9	0	0		5.6	5.9	6	6.2	6.4	6.6	6.9
Salinity (ppt)	57	0	N/A				0.06	0.11	0.2	0.3	0.42	0.57	0.64
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				149	287	427	595	823	1090	1201
Water Temperature (°C)	58	0	>32	0	0		3.5	8.4	12.1	18.4	25.7	28.5	29.4
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				32	33	37	42	52	55	55
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	8.4	12	12
Turbidity (NTU)	59	0	>50	0	0		1.2	1.6	2	3.4	6.2	15	30
<b>Nutrients (mg/L)</b>													
NH3 as N	59	2	N/A				0.02	0.02	0.03	0.06	0.15	0.28	0.43
NO2 + NO3 as N	58	6	N/A				0.02	0.02	0.06	0.48	1.1	2.34	3.5
TKN as N	59	0	N/A				0.46	0.58	0.65	0.83	1	1.3	1.6
Total Phosphorus	59	0	N/A				0.03	0.07	0.09	0.14	0.32	0.54	1.7
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	103.2	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:** 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:** 02/03/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	58	0	N/A				1.2	4.8	6.5	8.2	9.9	14.5
pH (SU)	58	0	<4.3	0	0		6.2	6.4	6.6	6.8	6.9	8.7
	58	0	>9	0	0		6.2	6.4	6.6	6.8	6.9	8.7
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				313	548	772	1793	2777	10696
Water Temperature (°C)	58	0	>32	1	1.7		2.6	5.4	9.7	17.2	25.8	32.1
<b>Other</b>												
TSS (mg/L)	58	2	N/A				2.9	3.6	4.8	7	12.4	50.9
<b>Nutrients (mg/L)</b>												
NH3 as N	56	1	N/A				0.01	0.04	0.06	0.12	0.21	4.67
NO2 + NO3 as N	58	4	N/A				0.02	0.03	0.05	0.13	0.62	4.44
TKN as N	55	2	N/A				0.1	0.2	0.5	0.7	1	7.2
Total Phosphorus	54	0	N/A				0.06	0.12	0.17	0.24	0.32	1.28
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
58	351.4	24	41.4	> 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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	57	0	N/A				0.2	2.2	3.3	5.2	8.7	13.1
pH (SU)	57	0	<4.3	0	0		5.6	5.9	6	6.3	6.5	6.9
	57	0	>9	0	0		5.6	5.9	6	6.3	6.5	6.9
Salinity (ppt)	56	0	N/A				0.03	0.06	0.07	0.09	0.12	0.33
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				87	148	168	198	253	651
Water Temperature (°C)	57	0	>32	0	0		0.6	7.4	10.4	17.3	25.6	29.7
<b>Other</b>												
Chlorophyll a (ug/L)	1	0	>40	0	0		4	4	4	4	4	4
Hardness (mg/L)	20	0	N/A				27	28	34	43	48	76
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.6	12
Turbidity (NTU)	59	2	>50	0	0		1	1.2	2.2	4.7	9.2	50
<b>Nutrients (mg/L)</b>												
NH3 as N	59	28	N/A				0.02	0.02	0.02	0.02	0.06	0.28
NO2 + NO3 as N	59	18	N/A				0.02	0.02	0.02	0.04	0.1	2.1
TKN as N	59	0	N/A				0.44	0.54	0.61	0.81	1	2.3
Total Phosphorus	59	0	N/A				0.02	0.03	0.07	0.12	0.2	0.93
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
59	89.9	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:** 01/13/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				0.5	1.7	3.1	4.9	9.4	10.9	13.7
pH (SU)	59	0	<4.3	0	0		6.1	6.3	6.5	6.6	6.8	7	7.3
	59	0	>9	0	0		6.1	6.3	6.5	6.6	6.8	7	7.3
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				100	134	159	181	209	245	341
Water Temperature (°C)	59	0	>32	0	0		2.6	4.6	9.7	16.7	24.5	26.8	30.1
<b>Other</b>													
TSS (mg/L)	20	9	N/A				2	2	2.7	3.7	11.2	20.1	157
Turbidity (NTU)	39	0	>50	0	0		1.2	1.5	1.8	2.6	3.3	5.6	8.6
<b>Nutrients (mg/L)</b>													
NH3 as N	55	10	N/A				0.01	0.01	0.02	0.03	0.07	0.1	0.18
NO2 + NO3 as N	59	27	N/A				0.01	0.02	0.02	0.02	0.05	0.58	2.02
TKN as N	56	5	N/A				0.1	0.1	0.4	0.6	0.8	1.13	2.8
Total Phosphorus	55	0	N/A				0.03	0.04	0.06	0.11	0.17	0.22	0.82
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	107.5	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:** 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:** 01/13/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				4	5.1	5.4	7.3	9	11	13.1
pH (SU)	59	0	<4.3	0	0		5.9	6.1	6.5	6.7	6.8	7	7.4
	59	0	>9	0	0		5.9	6.1	6.5	6.7	6.8	7	7.4
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				116	132	167	188	212	277	339
Water Temperature (°C)	59	0	>32	0	0		1.3	5.1	9.6	16.1	23.3	26	28.3
<b>Other</b>													
TSS (mg/L)	59	27	N/A				2	2.7	2.7	2.9	5.1	7.5	9.5
<b>Nutrients (mg/L)</b>													
NH3 as N	56	5	N/A				0.01	0.02	0.02	0.04	0.08	0.12	0.62
NO2 + NO3 as N	59	1	N/A				0.02	0.09	0.19	0.28	0.52	1.21	2.55
TKN as N	56	3	N/A				0.1	0.2	0.42	0.7	0.8	1.2	1.3
Total Phosphorus	55	1	N/A				0.02	0.04	0.07	0.12	0.18	0.21	0.51
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	204	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				0.1	5.6	6.8	7.9	9.4	11	12.7
pH (SU)	58	0	<4.3	0	0		5.6	5.9	6.2	6.4	6.5	6.8	6.9
	58	0	>9	0	0		5.6	5.9	6.2	6.4	6.5	6.8	6.9
Salinity (ppt)	57	0	N/A				0.04	0.05	0.06	0.07	0.09	0.1	0.14
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				91	117	140	165	194	218	285
Water Temperature (°C)	58	0	>32	0	0		0.8	6.8	9.8	16.9	24.6	28.1	30.6
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		1	1	1	1	1	1	1
Hardness (mg/L)	21	0	N/A				26	28	32	36	41	43	44
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.8	12	14
Turbidity (NTU)	59	0	>50	0	0		1.6	2.1	2.9	4.2	6.3	10	37
<b>Nutrients (mg/L)</b>													
NH3 as N	59	12	N/A				0.02	0.02	0.02	0.02	0.04	0.12	0.19
NO2 + NO3 as N	59	1	N/A				0.02	0.16	0.22	0.33	0.47	0.91	2
TKN as N	58	0	N/A				0.52	0.58	0.66	0.8	0.92	1.2	3.4
Total Phosphorus	59	0	N/A				0.03	0.04	0.08	0.13	0.17	0.2	0.82
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	124.6	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:** 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:** 01/13/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				3.6	5.1	5.7	7.5	9.7	11.6	12.9
pH (SU)	59	0	<4.3	0	0		6	6.4	6.6	6.9	7.1	7.2	7.5
	59	0	>9	0	0		6	6.4	6.6	6.9	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				85	100	129	146	177	260	400
Water Temperature (°C)	59	0	>32	0	0		2.4	5.9	9.3	15.7	23.3	25.8	27.7
<b>Other</b>													
TSS (mg/L)	59	25	N/A				2	2.7	2.7	3	6	12	39.7
<b>Nutrients (mg/L)</b>													
NH3 as N	58	2	N/A				0.01	0.02	0.04	0.06	0.09	0.18	0.91
NO2 + NO3 as N	59	1	N/A				0.02	0.38	0.56	1.32	1.82	2.95	8.3
TKN as N	55	2	N/A				0.1	0.3	0.5	0.7	0.9	1.34	2
Total Phosphorus	55	0	N/A				0.08	0.11	0.17	0.29	0.5	0.67	0.81
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	231.6	14	23.7	71.7									

**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 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:** 01/13/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				6.1	7.3	8.1	10.2	11.4	12.6	13.2
pH (SU)	57	0	<4.3	0	0		6.1	6.7	7	7.3	7.6	8	8.3
	57	0	>9	0	0		6.1	6.7	7	7.3	7.6	8	8.3
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				82	98	119	138	168	203	287
Water Temperature (°C)	57	0	>32	0	0		3.5	6.3	10.4	17.5	25.2	28.1	30.1
<b>Other</b>													
TSS (mg/L)	57	31	N/A				2	2.7	2.8	3	7.2	14.9	151
Turbidity (NTU)	57	0	>50	1	1.8		1.2	2.6	3.2	3.8	5	10.6	85.2
<b>Nutrients (mg/L)</b>													
NH3 as N	55	5	N/A				0.01	0.01	0.02	0.05	0.1	0.15	0.48
NO2 + NO3 as N	57	4	N/A				0.02	0.03	0.05	0.14	0.31	1.02	10.7
TKN as N	54	5	N/A				0.1	0.15	0.3	0.5	0.7	0.95	3.4
Total Phosphorus	54	1	N/A				0.02	0.04	0.04	0.06	0.1	0.13	0.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	216.2	17	29.8	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				0.5	5.2	6.3	7.4	9.2	11	12.4
pH (SU)	58	0	<4.3	0	0		5.7	6	6.3	6.6	6.7	6.9	7.1
	58	0	>9	0	0		5.7	6	6.3	6.6	6.7	6.9	7.1
Salinity (ppt)	57	0	N/A				0.02	0.04	0.05	0.07	0.11	0.15	0.2
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				71	103	126	158	232	306	407
Water Temperature (°C)	58	0	>32	0	0		2	7.6	10.5	17	24.2	27.1	28.3
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				27	29	34	44	60	70	81
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	7.8	12
Turbidity (NTU)	59	0	>50	0	0		1.8	2.8	3.4	5	6.4	11	16
<b>Nutrients (mg/L)</b>													
NH3 as N	59	7	N/A				0.02	0.02	0.03	0.04	0.07	0.11	0.26
NO2 + NO3 as N	59	0	N/A				0.2	0.38	0.86	1.3	2.3	5.7	11
TKN as N	59	0	N/A				0.52	0.7	0.84	0.94	1.1	1.3	1.8
Total Phosphorus	59	0	N/A				0.07	0.13	0.19	0.35	0.59	0.81	1.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	135.2	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				0.1	4.6	5.2	7.2	9	10.9	11.6
pH (SU)	59	0	<4.3	0	0		5.5	5.8	6.1	6.3	6.6	6.6	6.7
	59	0	>9	0	0		5.5	5.8	6.1	6.3	6.6	6.6	6.7
Salinity (ppt)	58	0	N/A				0.03	0.04	0.05	0.07	0.08	0.09	0.13
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				80	106	124	152	176	194	278
Water Temperature (°C)	59	0	>32	0	0		2	7.1	11.7	17.7	24.9	29.1	30.7
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		37	37	37	37	37	37	37
Hardness (mg/L)	20	0	N/A				25	30	33	38	44	50	55
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.8	8.8	12
Turbidity (NTU)	60	0	>50	0	0		2.2	3	3.4	4.8	6.9	9	18
<b>Nutrients (mg/L)</b>													
NH3 as N	59	8	N/A				0.02	0.02	0.02	0.04	0.05	0.1	0.12
NO2 + NO3 as N	58	2	N/A				0.02	0.2	0.31	0.48	0.63	0.98	1.6
TKN as N	59	0	N/A				0.56	0.6	0.68	0.77	0.9	1.1	2.5
Total Phosphorus	59	0	N/A				0.05	0.06	0.11	0.16	0.2	0.24	0.58

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	51.5	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:** 01/13/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				0.3	1.3	3.5	5.1	7.9	10.9	11.7
pH (SU)	59	0	<4.3	0	0		4.4	5	5.4	5.9	6.3	6.6	7.2
	59	0	>9	0	0		4.4	5	5.4	5.9	6.3	6.6	7.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				75	85	93	114	138	156	184
Water Temperature (°C)	59	0	>32	0	0		4.4	6	9.8	16.4	23.1	26.1	27.6
<b>Other</b>													
TSS (mg/L)	20	6	N/A				2	2.1	2.7	5	6.9	15.4	37.2
Turbidity (NTU)	39	0	>50	0	0		2.3	3.2	3.6	5.2	8	10.2	13.6
<b>Nutrients (mg/L)</b>													
NH3 as N	57	3	N/A				0.01	0.01	0.04	0.09	0.16	0.2	3.38
NO2 + NO3 as N	58	8	N/A				0.02	0.02	0.06	0.12	0.29	0.7	1.4
TKN as N	56	0	N/A				0.3	0.67	0.8	1.05	1.27	1.83	6
Total Phosphorus	55	0	N/A				0.04	0.09	0.12	0.16	0.23	0.34	0.71
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	144.8	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:** 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:** 01/13/2010 to 12/11/2012

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	36	0	N/A				0.2	0.3	0.7	1.5	5.7	8.8	11.9
pH (SU)	36	0	<4.3	0	0		5.2	5.7	6.3	6.6	6.9	7	7.3
	36	0	>9	0	0		5.2	5.7	6.3	6.6	6.9	7	7.3
Spec. conductance (umhos/cm at 25°C)	36	0	N/A				68	122	162	239	284	329	398
Water Temperature (°C)	36	0	>32	0	0		3.3	7.8	9.9	15.8	22.8	24.2	25.2
<b>Other</b>													
Chlorophyll a (ug/L)	25	0	>40	2	8		1	1	1	3	10	36	100
TSS (mg/L)	36	0	N/A				3	3.9	5.1	7.4	10.1	20.7	118
Turbidity (NTU)	36	0	>50	0	0		4.6	5.1	5.9	7.7	10.7	14.9	30
<b>Nutrients (mg/L)</b>													
NH3 as N	34	0	N/A				0.01	0.03	0.06	0.14	0.28	0.64	0.93
NO2 + NO3 as N	36	2	N/A				0.01	0.02	0.04	0.12	0.27	0.53	0.81
TKN as N	34	1	N/A				0.1	0.25	0.5	0.7	1	1.5	2.8
Total Phosphorus	33	0	N/A				0.04	0.07	0.12	0.21	0.33	0.48	0.86

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
36	258	11	30.6	91.1

**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:** 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:** 01/13/2010 to 12/11/2012

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	36	0	N/A				1.6	2.8	4.1	5.1	8.5	12
pH (SU)	36	0	<4.3	0	0		6	6.1	6.7	7.4	7.6	7.9
	36	0	>9	0	0		6	6.1	6.7	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	36	0	N/A				107	184	271	440	890	1290
Water Temperature (°C)	36	0	>32	0	0		3.7	7	10.2	17.9	22.8	27.2
<b>Other</b>												
Chlorophyll a (ug/L)	25	0	>40	0	0		1	1	1	2	4	29
TSS (mg/L)	36	0	N/A				2.7	3	4.3	5.9	9.4	22.3
Turbidity (NTU)	36	0	>50	0	0		3.6	5.4	6.2	8	12.2	21.7
<b>Nutrients (mg/L)</b>												
NH3 as N	34	0	N/A				0.03	0.04	0.06	0.11	0.16	0.42
NO2 + NO3 as N	36	0	N/A				0.1	0.19	0.77	5.24	23.52	31.6
TKN as N	32	14	N/A				0.1	0.1	0.12	0.35	0.8	1.3
Total Phosphorus	33	0	N/A				0.18	0.25	0.34	0.82	2.8	5.08
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
36	328	14	38.9	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				0	1.5	4.4	7.5	9.5	11.3	12.6
pH (SU)	58	0	<4.3	0	0		5.9	6.2	6.4	6.8	7.4	7.6	8.3
	58	0	>9	0	0		5.9	6.2	6.4	6.8	7.4	7.6	8.3
Salinity (ppt)	57	0	N/A				0.01	0.05	0.09	0.13	0.39	0.56	0.65
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				68	122	207	280	776	1068	1231
Water Temperature (°C)	58	0	>32	0	0		4.4	9	12.2	20.1	24.2	27.9	29.2
<b>Other</b>													
Chlorophyll a (ug/L)	57	16	>40	0	0		1	1	1	2	3	5	13
Hardness (mg/L)	19	0	N/A				33	42	48	55	73	76	130
TSS (mg/L)	19	12	N/A				6.2	6.2	6.2	6.2	12	12	24
Turbidity (NTU)	58	0	>50	1	1.7		3.9	5.2	6.6	8.6	12.2	21.4	160
<b>Nutrients (mg/L)</b>													
NH3 as N	59	2	N/A				0.02	0.02	0.03	0.06	0.14	0.26	0.92
NO2 + NO3 as N	59	5	N/A				0.02	0.02	0.15	0.84	15	24	34
TKN as N	58	0	N/A				0.28	0.51	0.66	0.86	1.1	1.32	2
Total Phosphorus	59	0	N/A				0.04	0.1	0.2	0.32	2	3.2	4.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	242.8	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:** 01/06/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				0.2	0.8	4.7	6.6	9	10.4	11.8
pH (SU)	59	0	<4.3	26	44.1	> 99.9	3.3	3.6	3.9	4.4	5	5.7	6.3
	59	0	>9	0	0		3.3	3.6	3.9	4.4	5	5.7	6.3
Salinity (ppt)	58	0	N/A				0.01	0.01	0.02	0.02	0.04	0.09	0.15
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				46	56	64	70	99	194	316
Water Temperature (°C)	59	0	>32	0	0		2.6	7.2	10.2	16.2	22.4	25.2	26.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				5	8	14	20	30	53	68
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	7.4	12
Turbidity (NTU)	60	0	>50	0	0		1.3	2.6	3.8	5.2	7.1	8.8	18
<b>Nutrients (mg/L)</b>													
NH3 as N	60	5	N/A				0.02	0.02	0.04	0.13	0.36	1.98	4.2
NO2 + NO3 as N	60	31	N/A				0.02	0.02	0.02	0.02	0.05	0.11	0.4
TKN as N	60	0	N/A				0.66	0.74	0.89	1.1	1.5	2.49	5
Total Phosphorus	60	2	N/A				0.02	0.02	0.02	0.03	0.05	0.1	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	104.7	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:** 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:** 01/20/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	N/A				0.3	3.3	4	5.5	8.1	9.5	11
pH (SU)	57	0	<4.3	0	0		5.7	6	6.3	6.6	6.7	6.9	7.1
	57	0	>9	0	0		5.7	6	6.3	6.6	6.7	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				92	107	128	148	210	282	5221
Water Temperature (°C)	57	0	>32	0	0		6.2	7.9	12.3	20.1	25.9	29.4	30.8
<b>Other</b>													
TSS (mg/L)	57	12	N/A				2	2.7	2.8	3.8	4.7	5.7	10
<b>Nutrients (mg/L)</b>													
NH3 as N	55	3	N/A				0.01	0.01	0.02	0.04	0.08	0.11	0.18
NO2 + NO3 as N	57	4	N/A				0.02	0.05	0.17	0.27	0.44	0.75	1.19
TKN as N	56	4	N/A				0.1	0.27	0.42	0.6	0.8	1	1.8
Total Phosphorus	52	1	N/A				0.02	0.05	0.07	0.1	0.12	0.19	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	50.9	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	N/A				0.1	3.1	3.7	5.3	7.5	9.5	10.7
pH (SU)	55	0	<4.3	0	0		5.2	5.6	5.8	6	6.3	6.5	6.9
	55	0	>9	0	0		5.2	5.6	5.8	6	6.3	6.5	6.9
Salinity (ppt)	54	0	N/A				0.03	0.04	0.05	0.07	0.08	0.14	2.83
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				80	96	120	152	186	295	5015
Water Temperature (°C)	55	0	>32	0	0		3.1	7.8	12.5	20.9	25.8	28.3	30.5
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				25	30	36	44	50	88	210
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	7.4	12	12
Turbidity (NTU)	56	0	>50	0	0		1.8	2.4	3	3.8	5	6.7	8.5
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	24.9	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:** 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:** 01/14/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	81	0	N/A				1.7	3.5	4.2	5.6	7.8	9.7	12
pH (SU)	83	0	<4.3	0	0		5.5	6.4	6.5	6.8	7	7.1	7.5
	83	0	>9	0	0		5.5	6.4	6.5	6.8	7	7.1	7.5
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				73	114	161	1010	10792	20573	31319
Water Temperature (°C)	83	0	>32	0	0		3.1	9.7	14.9	23.6	27.4	30.1	31.4
<b>Other</b>													
TSS (mg/L)	59	0	N/A				2	3.9	6.4	9.3	13.8	27.7	47.7
<b>Nutrients (mg/L)</b>													
NH3 as N	55	5	N/A				0.01	0.01	0.02	0.04	0.06	0.1	0.3
NO2 + NO3 as N	59	5	N/A				0.02	0.03	0.18	0.28	0.38	0.47	0.94
TKN as N	58	6	N/A				0.1	0.1	0.3	0.5	0.7	0.9	1.3
Total Phosphorus	56	0	N/A				0.04	0.06	0.07	0.1	0.14	0.17	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	45.3	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:** 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:** 01/20/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				2	3.8	4.5	6.2	8.6	9.7	11.3
pH (SU)	59	0	<4.3	0	0		5.6	6.3	6.5	6.8	7	7.1	7.3
	59	0	>9	0	0		5.6	6.3	6.5	6.8	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				110	195	526	3594	11181	17181	30099
Water Temperature (°C)	59	0	>32	0	0		6.4	8.2	12.4	20.6	27.5	29.4	30.8
<b>Other</b>													
TSS (mg/L)	21	0	N/A				3.8	9	11.5	16.3	23.2	27.6	43.3
Turbidity (NTU)	21	0	>50	0	0		2.8	3.6	6	9	12.9	21.1	30.1
<b>Nutrients (mg/L)</b>													
NH3 as N	21	2	N/A				0.02	0.02	0.04	0.08	0.1	0.11	0.12
NO2 + NO3 as N	21	2	N/A				0.02	0.03	0.14	0.23	0.26	0.41	0.64
TKN as N	20	2	N/A				0.1	0.1	0.3	0.6	0.78	1.28	1.9
Total Phosphorus	20	0	N/A				0.05	0.06	0.07	0.11	0.12	0.14	0.22
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	136.8	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:** 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:** 01/19/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				2.6	3.4	4.2	6.1	8.4	9.8	11.3
pH (SU)	56	0	<4.3	0	0		5.2	6.3	6.6	6.9	7.1	7.3	7.5
	56	0	>8.5	0	0		5.2	6.3	6.6	6.9	7.1	7.3	7.5
Salinity (ppt)	57	0	N/A				0.04	0.15	1.75	6.51	11.46	15.18	21.3
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				106	285	2894	10521	18924	25392	33963
Water Temperature (°C)	58	0	>32	0	0		5.7	9	12.4	20	26.2	29.7	30.8
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		6	6	6	6	6	6	6
TSS (mg/L)	21	6	N/A				6.2	6.2	7	10	14	22.8	26
Turbidity (NTU)	58	0	>25	0	0		3.1	5.1	7	8.2	11.5	16.1	24
<b>Nutrients (mg/L)</b>													
NH3 as N	3	0	N/A				0.03	0.03	0.03	0.06	0.08	0.08	0.08
NO2 + NO3 as N	3	0	N/A				0.35	0.35	0.35	0.45	0.7	0.7	0.7
TKN as N	3	0	N/A				0.58	0.58	0.58	0.64	0.74	0.74	0.74
Total Phosphorus	3	0	N/A				0.07	0.07	0.07	0.09	0.12	0.12	0.12
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	32	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:** 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:** 01/14/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<5	18	31	> 99.9	3.4	3.8	4.6	7	9.2	10.9	12.7
pH (SU)	59	0	<6.8	9	15.3	86.8	6.2	6.7	7	7.2	7.3	7.6	8
	59	0	>8.5	0	0		6.2	6.7	7	7.2	7.3	7.6	8
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				72	121	1275	5196	13721	21487	36385
Water Temperature (°C)	59	0	>32	0	0		3.6	7.3	12.7	20.4	27.2	29.6	31.3
<b>Other</b>													
TSS (mg/L)	59	0	N/A				3.9	7.4	9.6	12.2	15.1	22	30
<b>Nutrients (mg/L)</b>													
NH3 as N	59	3	N/A				0.01	0.01	0.04	0.07	0.1	0.15	0.22
NO2 + NO3 as N	59	2	N/A				0.02	0.28	0.38	0.48	0.6	0.73	0.82
TKN as N	58	7	N/A				0.1	0.19	0.38	0.5	0.6	0.8	0.9
Total Phosphorus	57	0	N/A				0.05	0.08	0.09	0.11	0.14	0.18	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
20	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 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:** 01/14/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<5	18	22	99.9	3.3	4.3	5	6.3	8.3	10.2	12.2
pH (SU)	83	0	<6.8	5	6		6.3	7	7.2	7.5	7.7	7.9	8
	83	0	>8.5	0	0		6.3	7	7.2	7.5	7.7	7.9	8
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				92	3537	8797	16985	26913	33223	36656
Water Temperature (°C)	83	0	>32	0	0		4.3	9.4	14.4	24.3	27.8	29.8	31
<b>Other</b>													
TSS (mg/L)	59	0	N/A				6.5	8.4	10.6	14	16.6	25	53.6
<b>Nutrients (mg/L)</b>													
NH3 as N	55	4	N/A				0.01	0.01	0.04	0.08	0.12	0.15	0.24
NO2 + NO3 as N	59	2	N/A				0.02	0.13	0.3	0.37	0.47	0.56	0.73
TKN as N	58	5	N/A				0.1	0.19	0.3	0.4	0.6	0.8	1.2
Total Phosphorus	57	0	N/A				0.04	0.07	0.08	0.1	0.11	0.15	0.18
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
20	17.8	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:** 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:** 01/14/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<5	30	36.6	> 99.9	3	3.8	4.6	5.8	8.1	9.8	12.5
pH (SU)	83	0	<6.8	7	8.4		6	6.8	7	7.3	7.4	7.6	7.9
	83	0	>8.5	0	0		6	6.8	7	7.3	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				84	1113	5492	12666	22658	28684	33220
Water Temperature (°C)	83	0	>32	0	0		4.4	9.3	14.4	24.2	27.8	30.1	31.4
<b>Other</b>													
Chlorophyll a (ug/L)	48	0	>40	0	0		1	2	3	4	8	15	28
TSS (mg/L)	59	0	N/A				5.3	7.7	9	11.1	13.2	19.3	30
Turbidity (NTU)	59	0	>25	2	3.4		1.2	4.4	5.9	7.2	10	12.6	34.3
<b>Nutrients (mg/L)</b>													
NH3 as N	59	2	N/A				0.01	0.01	0.04	0.08	0.1	0.16	0.33
NO2 + NO3 as N	59	2	N/A				0.02	0.23	0.3	0.39	0.52	0.62	0.96
TKN as N	58	5	N/A				0.1	0.19	0.3	0.45	0.6	0.71	1
Total Phosphorus	56	0	N/A				0.06	0.07	0.08	0.1	0.12	0.15	0.44
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
20	20.6	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 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:** 01/19/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<5	19	32.8	> 99.9	3.1	3.8	4.4	6.2	8.6	10	11.3
pH (SU)	57	0	<6.8	16	28.1	> 99.9	5.6	6.4	6.6	7	7.2	7.4	7.5
	57	0	>8.5	0	0		5.6	6.4	6.6	7	7.2	7.4	7.5
Salinity (ppt)	58	0	N/A				0.05	1.07	3.12	8.47	12.93	15.92	21.23
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				121	1922	5452	14718	21398	26331	33891
Water Temperature (°C)	59	0	>32	0	0		6.1	9	12.6	20	26.3	29.7	31.3
<b>Other</b>													
TSS (mg/L)	21	2	N/A				6.2	6.3	8	10	11.5	14.6	20
Turbidity (NTU)	59	0	>25	0	0		3.2	4.9	6.6	8.1	11	16	25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	24.6	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 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:** 01/19/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<5	15	27.3	> 99.9	3.3	4.2	4.8	6.5	8.8	10.1	11.1
pH (SU)	54	0	<6.8	15	27.8	> 99.9	5.8	6.4	6.7	7.1	7.4	7.6	7.7
	54	0	>8.5	0	0		5.8	6.4	6.7	7.1	7.4	7.6	7.7
Salinity (ppt)	55	0	N/A				0.08	1.41	4.97	9.32	16.01	19.43	24.24
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				178	2586	8602	15862	26164	31524	38120
Water Temperature (°C)	56	0	>32	0	0		6.3	9	12.3	19.6	26	29.6	30.9
<b>Other</b>													
TSS (mg/L)	21	1	N/A				6.2	6.6	8	10	16	17.6	26
Turbidity (NTU)	55	0	>25	0	0		3.4	4.5	5.8	8.1	12	16	22
<b>Nutrients (mg/L)</b>													
NH3 as N	2	0	N/A				0.06	0.06	0.06	0.07	0.08	0.08	0.08
NO2 + NO3 as N	2	0	N/A				0.24	0.24	0.24	0.41	0.58	0.58	0.58
TKN as N	2	0	N/A				0.46	0.46	0.46	0.55	0.63	0.63	0.63
Total Phosphorus	2	0	N/A				0.08	0.08	0.08	0.09	0.1	0.1	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	19	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:** 01/14/2010 to 06/21/2011

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	25	0	<5	1	4		4.2	5.3	6	7.3	10	11.3	11.6
pH (SU)	25	0	<6.8	1	4		6.5	7.3	7.5	7.7	8	8.1	8.3
	25	0	>8.5	0	0		6.5	7.3	7.5	7.7	8	8.1	8.3
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				218	3768	15553	25105	34418	38481	40472
Water Temperature (°C)	25	0	>32	0	0		4.6	6.2	11.6	24	29	30.3	31
<b>Other</b>													
TSS (mg/L)	18	0	N/A				8	8.1	11.8	15	19.3	27.3	57
<b>Nutrients (mg/L)</b>													
NH3 as N	18	4	N/A				0.01	0.01	0.01	0.05	0.07	0.08	0.09
NO2 + NO3 as N	18	0	N/A				0.03	0.12	0.25	0.29	0.4	0.65	0.7
TKN as N	18	1	N/A				0.2	0.29	0.3	0.4	0.6	0.71	0.8
Total Phosphorus	18	1	N/A				0.02	0.05	0.06	0.07	0.09	0.13	0.14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
18	17	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:** 01/14/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<5	4	4.9		4	5.1	6	7	8.7	10	11.9
pH (SU)	83	0	<6.8	1	1.2		6.6	7.3	7.6	7.8	8	8.1	8.3
	83	0	>8.5	0	0		6.6	7.3	7.6	7.8	8	8.1	8.3
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				537	10338	19909	29009	38372	40433	46381
Water Temperature (°C)	83	0	>32	0	0		5	9.9	14.3	24.5	28.1	29.5	30.9
<b>Other</b>													
TSS (mg/L)	59	1	N/A				3.7	7.4	9.7	12.6	16.3	19	34.3
<b>Nutrients (mg/L)</b>													
NH3 as N	56	9	N/A				0.01	0.01	0.02	0.04	0.07	0.12	0.18
NO2 + NO3 as N	59	5	N/A				0.02	0.03	0.16	0.25	0.34	0.48	0.63
TKN as N	58	7	N/A				0.1	0.1	0.2	0.35	0.5	0.6	1.2
Total Phosphorus	56	1	N/A				0.02	0.04	0.06	0.06	0.08	0.1	0.16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
20	15.5	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 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:** 01/14/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	81	0	<5	1	1.2		4.9	5.8	6.2	7	8.6	10.1	11.8
pH (SU)	82	0	<6.8	0	0		6.9	7.8	7.9	8	8	8.1	8.3
	82	0	>8.5	0	0		6.9	7.8	7.9	8	8	8.1	8.3
Spec. conductance (umhos/cm at 25°C)	82	0	N/A				9045	22912	33424	39575	46638	49682	52300
Water Temperature (°C)	82	0	>32	0	0		6	10.4	14.5	24.6	28	29.3	30.5
<b>Other</b>													
TSS (mg/L)	58	0	N/A				7	8.7	11	14.4	17.6	21.9	24
<b>Nutrients (mg/L)</b>													
NH3 as N	55	19	N/A				0.01	0.01	0.01	0.02	0.05	0.14	0.33
NO2 + NO3 as N	58	8	N/A				0.02	0.02	0.05	0.14	0.22	0.35	0.54
TKN as N	58	15	N/A				0.1	0.1	0.18	0.25	0.4	0.51	3
Total Phosphorus	56	6	N/A				0.02	0.02	0.03	0.05	0.06	0.09	0.34
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
19	11.6	0	0			10	1	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 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:** 01/14/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	81	0	<5	0	0		5.4	5.9	6.3	7	8.6	9.9	11.2
pH (SU)	82	0	<6.8	0	0		7.2	7.8	7.9	8	8.1	8.1	8.2
	82	0	>8.5	0	0		7.2	7.8	7.9	8	8.1	8.1	8.2
Spec. conductance (umhos/cm at 25°C)	82	0	N/A				13788	30125	39434	46444	50690	52401	53651
Water Temperature (°C)	82	0	>32	0	0		5.9	10.5	14.1	24	27.8	29.1	30.4
<b>Other</b>													
Chlorophyll a (ug/L)	48	0	>40	0	0		3	5	6	8	10	15	24
TSS (mg/L)	58	1	N/A				2.7	8	11.6	16.6	20.4	24.2	36.2
Turbidity (NTU)	58	0	>25	0	0		0.9	3	4.3	5.3	6.9	8.8	12
<b>Nutrients (mg/L)</b>													
NH3 as N	56	27	N/A				0.01	0.01	0.01	0.02	0.06	0.33	0.5
NO2 + NO3 as N	58	21	N/A				0.02	0.02	0.02	0.03	0.12	0.24	0.49
TKN as N	57	14	N/A				0.1	0.1	0.15	0.2	0.3	0.52	1.1
Total Phosphorus	55	4	N/A				0.02	0.03	0.03	0.04	0.05	0.08	0.11
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
19	10.6	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:** 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:** 01/14/2010 to 06/21/2011

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	24	0	<5	0	0		5.2	5.3	5.8	6.8	9.4	11.3
pH (SU)	24	0	<6.8	0	0		7.6	7.7	7.7	7.9	8	8
	24	0	>8.5	0	0		7.6	7.7	7.7	7.9	8	8
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				12276	32088	40755	46309	48118	52986
Water Temperature (°C)	24	0	>32	0	0		5.4	6.9	11.3	23.1	28.8	30.8
<b>Other</b>												
TSS (mg/L)	17	0	N/A				8	9.6	14.6	17.5	20.8	34
<b>Nutrients (mg/L)</b>												
NH3 as N	17	10	N/A				0.01	0.01	0.01	0.01	0.01	0.02
NO2 + NO3 as N	17	4	N/A				0.02	0.02	0.02	0.05	0.13	0.49
TKN as N	17	3	N/A				0.2	0.2	0.2	0.4	0.45	0.7
Total Phosphorus	17	2	N/A				0.02	0.02	0.02	0.04	0.05	0.06
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>			
17	10.6	0	0			10	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

## Catawba

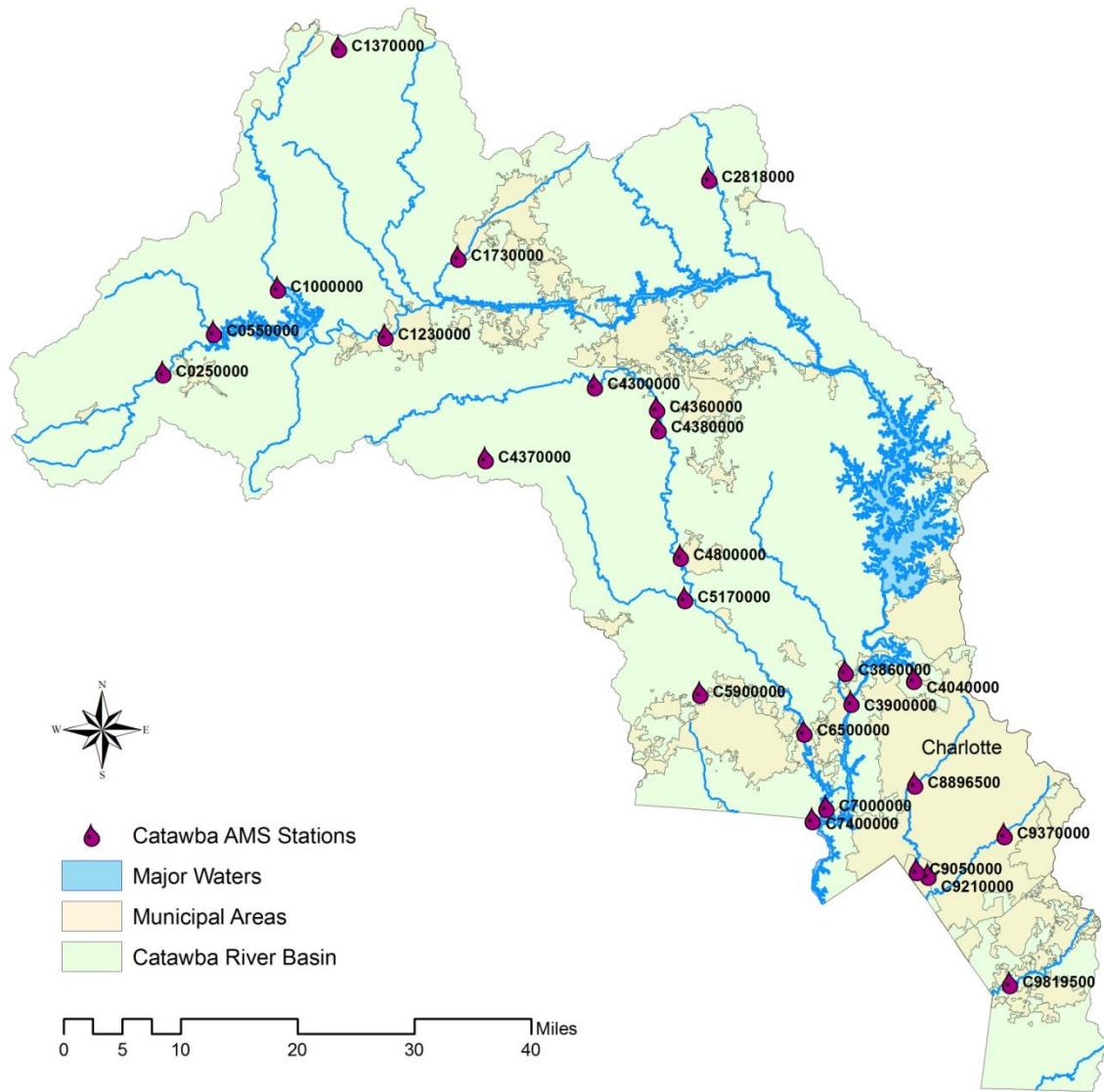


Figure CTB-1. Catawba River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

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

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
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:** 01/28/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		8.1	8.3	9.4	11.1	12.5	13	14
pH (SU)	18	0	<6	0	0		6.1	6.6	7	7.2	7.3	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.1	6.6	7	7.2	7.3	7.4	7.4
Water Temperature (°C)	18	0	N/A				38	38	42	45	47	50	60
Water Temperature (°C)	19	0	>29	0	0		1.8	5.3	6.3	9.8	16.6	20.9	22
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				11	12	13	15	16	20	89
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.5	16	33.1	39
Turbidity (NTU)	59	2	>50	3	5.1		1	1.3	2	4.4	8.5	21	200
<b>Nutrients (mg/L)</b>													
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				0.07	0.09	0.13	0.16	0.2	0.24	0.3
TKN as N	56	36	N/A				0.2	0.2	0.2	0.2	0.2	0.24	1.8
Total Phosphorus	56	8	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.41
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	115	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:** 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:** 01/28/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		8	8	8.6	11.4	12.8	13.8	14
pH (SU)	19	0	<5	0	0		8	8	8.6	11.4	12.8	13.8	14
	18	0	<6	0	0		6.9	7.3	7.5	7.8	8	8.5	8.6
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.9	7.3	7.5	7.8	8	8.5	8.6
Water Temperature (°C)	18	0	N/A				46	53	86	96	111	122	123
	19	0	>29	0	0		2.1	5.6	6.3	10.1	18.4	21.5	22.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				15	21	25	33	38	39	49
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	8.8	16.7	20
Turbidity (NTU)	59	5	>50	4	6.8		1	1.2	2.2	3.7	7.3	13	450
<b>Nutrients (mg/L)</b>													
NH3 as N	55	47	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	55	3	N/A				0.02	0.04	0.1	0.18	0.27	0.37	0.6
TKN as N	55	27	N/A				0.2	0.2	0.2	0.2	0.2	0.29	0.93
Total Phosphorus	55	2	N/A				0.02	0.02	0.02	0.03	0.05	0.07	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	51.5	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:** 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:** 01/28/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		8.4	8.5	9.6	11.4	12.8	13.6	13.9
pH (SU)	19	0	<5	0	0		8.4	8.5	9.6	11.4	12.8	13.6	13.9
	18	0	<6	0	0		6.5	6.6	7	7.3	7.5	7.5	7.6
	18	0	>9	0	0		6.5	6.6	7	7.3	7.5	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				39	43	48	50	55	56	56
Water Temperature (°C)	19	0	>29	0	0		1.1	4.4	5.7	9.7	18.9	23.2	24.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	10	12	13	15	18	25
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	6.2	7.8	11
Turbidity (NTU)	58	15	>50	2	3.4		1	1	1	1.8	2.8	5.3	250
<b>Nutrients (mg/L)</b>													
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	0.16	0.25	0.3	0.37	0.47
TKN as N	55	32	N/A				0.2	0.2	0.2	0.2	0.2	0.23	1.2
Total Phosphorus	55	40	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	17.7	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:** 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:** 02/01/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<4	0	0		7.2	7.5	9.3	10.3	11.9	12.7	12.8
pH (SU)	18	0	<5	0	0		7.2	7.5	9.3	10.3	11.9	12.7	12.8
	18	0	<6	0	0		6.6	6.7	6.9	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.6	6.7	6.9	7.1	7.2	7.3	7.4
Water Temperature (°C)	18	0	N/A				49	49	53	54	58	61	62
	18	0	>29	0	0		5.2	5.6	8.1	10.8	15.1	20.8	23
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		8	15	16	17	19	19	32
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.6	12.5	19.8	22
Turbidity (NTU)	58	1	>50	3	5.2		1	1.8	2.7	6	10	27.9	290
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	75.6	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:** 01/27/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<6	0	0		8.7	8.7	9.4	10.9	12.1	12.3	12.4
pH (SU)	18	0	<6	1	5.6		5.8	6	6.2	6.4	6.7	6.7	6.8
	18	0	>9	0	0		5.8	6	6.2	6.4	6.7	6.7	6.8
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				10	14	16	17	17	21	45
Water Temperature (°C)	18	0	>20	0	0		2	2.4	3.2	6.7	12.4	14.5	15.9
	18	0	>29	0	0		2	2.4	3.2	6.7	12.4	14.5	15.9
<b>Other</b>													
Chloride (mg/L)	51	26	>230	0	0		1	1	1	1	1	2	4
Fluoride (mg/L)	51	50	>1.8	0	0		0.2	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	20	0	N/A				4	5	5	5	6	8	20
Sulfate (mg/L)	50	7	N/A				1	2	2	3	3	3	4
TSS (mg/L)	22	20	N/A				6.2	6.2	6.2	6.2	6.2	10.3	232
Turbidity (NTU)	55	41	>10	0	0		1	1	1	1	1.1	1.8	6.5
<b>Nutrients (mg/L)</b>													
NH3 as N	53	53	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	53	1	N/A				0.02	0.05	0.1	0.15	0.2	0.28	0.57
TKN as N	53	46	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.67
Total Phosphorus	53	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	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:** 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 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	<4	0	0		7	7.1	7.9	9.9	11.6	12.5	12.6
pH (SU)	14	0	<5	0	0		7	7.1	7.9	9.9	11.6	12.5	12.6
	14	0	<6	0	0		6.8	6.8	7	7	7.1	7.2	7.2
	14	0	>9	0	0		6.8	6.8	7	7	7.1	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				19	40	69	89	97	101	102
Water Temperature (°C)	14	0	>29	0	0		3.6	4.4	8.6	12.2	18.9	22	22.8
<b>Other</b>													
Chloride (mg/L)	1	1	>230	0	0		1	1	1	1	1	1	1
Fluoride (mg/L)	1	1	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	10	0	>100	0	0		25	25	27	28	31	34	34
Sulfate (mg/L)	1	0	>250	0	0		2	2	2	2	2	2	2
TSS (mg/L)	10	1	N/A				6.2	6.3	8.5	11.5	21	49.2	50
Turbidity (NTU)	29	0	>50	4	13.8	67	1.5	2.4	5.8	15	39	150	190
<b>Nutrients (mg/L)</b>													
NH3 as N	30	11	N/A				0.02	0.02	0.02	0.02	0.04	0.12	0.28
NO2 + NO3 as N	30	0	>10	0	0		0.14	0.31	0.53	0.62	0.72	0.8	0.91
TKN as N	30	1	N/A				0.2	0.2	0.25	0.28	0.4	0.78	1.4
Total Phosphorus	30	1	N/A				0.02	0.03	0.04	0.08	0.16	0.2	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	200.2	8	27.6	79									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 02/01/2010 to 06/18/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	4	0	<4	0	0		9.4	9.4	9.5	10.3	12	12.4	12.4
pH (SU)	4	0	<5	0	0		9.4	9.4	9.5	10.3	12	12.4	12.4
	4	0	<6	0	0		6.8	6.8	6.8	6.8	7.1	7.2	7.2
	4	0	>9	0	0		6.8	6.8	6.8	6.8	7.1	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	4	0	N/A				76	76	78	91	106	110	110
Water Temperature (°C)	4	0	>29	0	0		4.1	4.1	5.2	9	10.7	11.1	11.1
<b>Other</b>													
Hardness (mg/L)	10	0	>100	0	0		24	24	27	30	31	32	32
TSS (mg/L)	10	3	N/A				6.2	6.2	6.2	12	40.2	80.6	85
Turbidity (NTU)	29	0	>50	6	20.7	93.6	4.4	5.3	7.4	16	34	100	200
<b>Nutrients (mg/L)</b>													
NH3 as N	26	1	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.15
NO2 + NO3 as N	26	0	>10	0	0		0.15	0.35	0.48	0.57	0.73	0.82	0.89
TKN as N	26	4	N/A				0.2	0.2	0.21	0.27	0.39	0.53	1.1
Total Phosphorus	26	0	N/A				0.03	0.03	0.04	0.08	0.15	0.22	0.36
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	320.3	12	41.4	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:** 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:** 01/05/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	0	0		4	7.7	8.2	9.6	11.6	12.7	13.6
pH (SU)	59	0	<5	1	1.7		4	7.7	8.2	9.6	11.6	12.7	13.6
	59	0	<6	0	0		6	6.7	7	7.2	7.7	8.2	9.2
Spec. conductance (umhos/cm at 25°C)	59	0	>9	1	1.7		6	6.7	7	7.2	7.7	8.2	9.2
	58	0	N/A				40	45	48	51	53	54	58
Water Temperature (°C)	59	0	>29	0	0		2.6	5.8	8.8	15.8	20.3	21.9	25.3
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				8	14	15	15	16	17	17
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	12.8	75.8	100
Turbidity (NTU)	60	0	>50	2	3.3		2.2	3.3	3.7	5.4	9.2	34.3	170
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	279.2	19	32.2	98.1									

**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:** 01/11/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6.2	7.3	7.9	9.2	11.4	12.1	14.5
pH (SU)	57	0	<5	0	0		6.2	7.3	7.9	9.2	11.4	12.1	14.5
	57	0	<6	0	0		6.2	6.9	7.2	7.4	7.6	7.9	8.1
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.2	6.9	7.2	7.4	7.6	7.9	8.1
	57	0	N/A				7	75	92	102	116	126	174
Water Temperature (°C)	58	0	>32	0	0		1.1	6.6	9.4	15.9	22	24.8	27.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		25	25	30	32	34	37	39
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	8.2	12	81	153
Turbidity (NTU)	59	0	>50	9	15.3	86.8	2.4	4.2	6.5	9	20	85	170
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	224.2	14	24.1	73.9									

**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:** 01/28/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		4.8	5.5	6.3	7.8	10.4	11.6	12.1
pH (SU)	55	0	<5	1	1.8		4.8	5.5	6.3	7.8	10.4	11.6	12.1
	56	0	<6	0	0		6.2	6.5	7.1	7.3	7.5	7.6	8.5
Spec. conductance (umhos/cm at 25°C)	56	0	>9	0	0		6.2	6.5	7.1	7.3	7.5	7.6	8.5
	57	0	N/A				46	56	62	70	75	81	104
Water Temperature (°C)	57	0	>32	0	0		7	8.8	11.6	19.6	27.2	29.8	31.8
<b>Other</b>													
Chlorophyll a (ug/L)	58	7	>40	0	0		1	1	1	2	3	4	11
Hardness (mg/L)	19	0	>100	0	0		15	16	19	19	20	23	26
TSS (mg/L)	18	16	N/A				6.2	6.2	6.2	6.2	7.2	12	12
Turbidity (NTU)	58	0	>25	3	5.2		1.2	1.6	2.1	2.9	4.9	9.6	150
<b>Nutrients (mg/L)</b>													
NH3 as N	54	12	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.04
NO2 + NO3 as N	54	0	>10	0	0		0.02	0.06	0.1	0.17	0.22	0.25	0.33
TKN as N	53	13	N/A				0.2	0.2	0.2	0.21	0.26	0.32	0.62
Total Phosphorus	54	31	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	14.6	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:** 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:** 01/26/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		5.4	6.3	7	8.6	10.9	12	13
pH (SU)	56	0	<5	0	0		5.4	6.3	7	8.6	10.9	12	13
	57	0	<6	0	0		6.2	7.1	7.4	7.6	7.6	7.9	8.4
	57	0	>9	0	0		6.2	7.1	7.4	7.6	7.6	7.9	8.4
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				72	105	131	183	199	213	293
Water Temperature (°C)	58	0	>32	0	0		5.4	7.8	10.3	16.6	22.1	25	26.5
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		36	44	50	70	76	88	90
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	11.2	12	28
Turbidity (NTU)	59	0	>50	10	16.9	93.3	2.2	2.7	4	6.9	28	60	140
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	231.5	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:** 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:** 01/13/2010 to 11/19/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		5.7	7.5	8.3	10.1	12.3	13.3	16.3
pH (SU)	55	0	<5	0	0		5.7	7.5	8.3	10.1	12.3	13.3	16.3
	57	0	<6	2	3.5		5.6	6.6	7	7.2	7.4	7.7	8.4
	57	0	>9	0	0		5.6	6.6	7	7.2	7.4	7.7	8.4
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				16	29	30	32	35	36	37
Water Temperature (°C)	57	0	>32	0	0		0.1	4.4	7.6	14.5	20.6	24.2	25.3
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				8	8	9	9	10	11	12
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	6.2	11.7	17
Turbidity (NTU)	58	0	>50	0	0		1.5	2.2	2.8	3.8	6.5	13	40
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	63.6	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:** 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:** 01/13/2010 to 11/19/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.7	7.2	8.2	9.6	12.3	13.2	14.3
pH (SU)	58	0	<6	1	1.7		5.9	6.7	6.9	7.1	7.3	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		5.9	6.7	6.9	7.1	7.3	7.5	7.8
Water Temperature (°C)	58	0	N/A				30	44	56	74	85	111	189
			>32	0	0		1.4	4.7	8.5	15.6	22.1	25	26.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	13	14	15	18	20	23
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.4	14.2	71.1	199
Turbidity (NTU)	58	0	>50	2	3.4		2.3	3.2	4.2	6	12	23.4	200
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	115.9	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:** 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:** 02/23/2010 to 11/24/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	16	0	<4	0	0		8.2	8.3	9	10.6	11.8	12.7	14
pH (SU)	16	0	<5	0	0		8.2	8.3	9	10.6	11.8	12.7	14
	15	0	<6	3	20	81.6	5.7	5.8	6.7	6.8	7.1	7.2	7.3
	15	0	>9	0	0		5.7	5.8	6.7	6.8	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	16	0	N/A				14	15	18	22	25	27	29
Water Temperature (°C)	16	0	>32	0	0		2	4.3	9	11.4	17.8	22.3	23.6
<b>Other</b>													
Hardness (mg/L)	18	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	7.6	79
Turbidity (NTU)	56	5	>50	0	0		1	1	1.3	1.9	3.3	5.9	50
<b>Nutrients (mg/L)</b>													
NH3 as N	52	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	52	4	>10	0	0		0.02	0.02	0.04	0.05	0.08	0.1	1
TKN as N	52	46	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.71
Total Phosphorus	52	46	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	55.1	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:** 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:** 01/13/2010 to 11/19/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.7	7.3	8.2	9.6	12.5	13.1	14.8
pH (SU)	58	0	<6	0	0		6.1	6.6	6.9	7.1	7.3	7.8	8.4
Spec. conductance (umhos/cm at 25°C)	58	0	>9	0	0		6.1	6.6	6.9	7.1	7.3	7.8	8.4
Water Temperature (°C)	58	0	N/A	0	0		25	41	49	55	65	80	126
			>32	0	0		0.6	4.5	8.2	15.3	21.7	24.6	25.9
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		12	13	13	15	16	19	20
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	8.2	13.5	60.8	126
Turbidity (NTU)	58	0	>50	1	1.7		1.8	3.2	4.3	6.7	12	19.6	120
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	131.9	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:** 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:** 01/13/2010 to 11/19/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.5	6.8	7.7	8.8	11	12	14.1
pH (SU)	58	0	<5	0	0		6.5	6.8	7.7	8.8	11	12	14.1
	58	0	<6	0	0		6.2	7	7.2	7.4	7.5	7.6	8.1
	58	0	>9	0	0		6.2	7	7.2	7.4	7.5	7.6	8.1
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				31	197	282	369	493	616	923
Water Temperature (°C)	58	0	>32	0	0		3.1	6.2	9.6	16	21.6	23.7	25.6
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		30	30	34	36	39	41	43
TSS (mg/L)	20	5	N/A				6.2	6.2	9	14.5	26.8	35.8	139
Turbidity (NTU)	58	0	>50	5	8.6		2.9	6.7	8.4	16	31	54	180
<b>Nutrients (mg/L)</b>													
NH3 as N	58	8	N/A				0.02	0.02	0.02	0.02	0.05	0.06	0.13
NO2 + NO3 as N	58	0	>10	0	0		0.63	0.96	1.1	1.35	1.62	2	2.7
TKN as N	58	1	N/A				0.2	0.26	0.33	0.4	0.46	0.6	1.1
Total Phosphorus	57	0	N/A				0.1	0.14	0.16	0.2	0.28	0.33	0.4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	446.8	25	43.1	> 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:** 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:** 01/13/2010 to 11/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.7	7.4	8.2	9.6	11.8	13	14.4
pH (SU)	58	0	<6	2	3.4		5.5	6.8	7.2	7.4	7.6	7.8	8.4
Spec. conductance (umhos/cm at 25°C)	56	0	N/A	0	0		5.5	6.8	7.2	7.4	7.6	7.8	8.4
Water Temperature (°C)	58	0	>32	0	0		2.2	5.4	9.4	15.7	21.5	24	25.9
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		19	20	21	22	23	24	25
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	7.4	10	13.8	23
Turbidity (NTU)	58	0	>50	2	3.4		3.3	4.6	6	9.4	15	23.3	140
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	321.7	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:** 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:** 01/25/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		4.7	6.3	7	8.8	11.4	12.8	15.7
pH (SU)	56	0	<5	1	1.8		4.7	6.3	7	8.8	11.4	12.8	15.7
	58	0	<6	0	0		6	7	7.2	7.4	7.6	8.1	8.7
Spec. conductance (umhos/cm at 25°C)	58	0	>9	0	0		6	7	7.2	7.4	7.6	8.1	8.7
	56	0	N/A				43	89	101	110	129	159	177
Water Temperature (°C)	58	0	>32	0	0		3.3	5.4	9.8	16.4	21.3	23	24.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				27	35	36	39	44	51	57
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	9.8	127.2	581
Turbidity (NTU)	58	0	>50	3	5.2		3.6	4.6	5.8	8.2	14.2	38.7	290
<b>Nutrients (mg/L)</b>													
NH3 as N	59	27	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.05
NO2 + NO3 as N	59	0	N/A				0.02	0.21	0.32	0.42	0.54	0.65	0.72
TKN as N	59	7	N/A				0.2	0.2	0.21	0.29	0.36	0.59	2.8
Total Phosphorus	59	0	N/A				0.02	0.03	0.03	0.04	0.06	0.13	0.78
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	298.3	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:** 01/13/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	1	1.7		2.4	6.6	7.6	9.2	11.3	12.3	13.9
pH (SU)	58	0	<5	1	1.7		2.4	6.6	7.6	9.2	11.3	12.3	13.9
	58	0	<6	0	0		6	7	7.3	7.4	7.6	7.8	8.3
	58	0	>9	0	0		6	7	7.3	7.4	7.6	7.8	8.3
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				59	86	102	127	152	206	244
Water Temperature (°C)	58	0	>32	0	0		2.1	6.3	10.4	17.5	23.1	26.2	29
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		19	20	24	24	28	30	30
TSS (mg/L)	20	1	N/A				6.5	9.6	11.2	16	34	71.7	190
Turbidity (NTU)	59	0	>50	9	15.3	86.8	5.2	8.8	13	20	38	100	330
<b>Nutrients (mg/L)</b>													
NH3 as N	59	10	N/A				0.02	0.02	0.02	0.04	0.05	0.07	0.1
NO2 + NO3 as N	59	0	>10	0	0		0.46	0.64	0.72	0.78	0.9	1	1.2
TKN as N	59	1	N/A				0.2	0.27	0.3	0.37	0.42	0.68	1.6
Total Phosphorus	59	0	N/A				0.04	0.06	0.08	0.1	0.13	0.21	0.52
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	129.5	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:** 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:** 01/28/2010 to 12/29/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		5	6.4	7.1	8.3	10	11.6	12.5
	55	0	<5	0	0		5	6.4	7.1	8.3	10	11.6	12.5
pH (SU)	56	0	<6	0	0		6.2	7.2	7.3	7.6	8.1	8.4	8.8
	56	0	>9	0	0		6.2	7.2	7.3	7.6	8.1	8.4	8.8
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				48	70	74	89	99	106	125
Water Temperature (°C)	57	0	>32	12	21.1	99	7.4	11.3	14.3	23.1	29.9	33.3	36.2
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		16	18	19	22	22	23	23
TSS (mg/L)	19	13	N/A				6.2	6.2	6.2	6.2	7.5	18	36
Turbidity (NTU)	58	0	>25	5	8.6		2.8	3.4	4.6	6.6	12	24.5	100
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	11.1	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:** 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:** 01/28/2010 to 12/29/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		5.1	6.1	7.3	8.7	10.4	11.3	12.1
pH (SU)	55	0	<5	0	0		5.1	6.1	7.3	8.7	10.4	11.3	12.1
	56	0	<6	0	0		6	7.1	7.3	7.5	8.2	8.7	9
	56	0	>9	0	0		6	7.1	7.3	7.5	8.2	8.7	9
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				59	72	82	91	98	103	107
Water Temperature (°C)	57	0	>32	2	3.5		6.9	8.6	12.8	21.8	29.1	31.6	33.3
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		19	19	21	22	23	30	30
TSS (mg/L)	18	16	N/A				6.2	6.2	6.2	6.2	6.2	6.4	7.8
Turbidity (NTU)	57	0	>25	2	3.5		1.6	2.7	3.6	4.6	6.5	10.2	110
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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:** 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:** 01/13/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				6.7	7.3	7.8	9	11.1	12.1	13.8
pH (SU)	58	0	N/A				6.3	7	7.4	7.6	7.7	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				112	167	185	220	286	377	415
Water Temperature (°C)	58	0	N/A				3.1	7.1	11.6	17.4	22.3	25.7	28
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				41	50	52	56	64	70	80
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	7.5	12	37.7	280
Turbidity (NTU)	59	0	N/A				2.2	3.5	5.1	7.2	12	38	240
<b>Nutrients (mg/L)</b>													
NH3 as N	59	7	N/A				0.02	0.02	0.02	0.04	0.06	0.12	0.34
NO2 + NO3 as N	59	0	N/A				0.25	0.35	0.42	0.58	0.86	1.1	1.5
TKN as N	58	1	N/A				0.2	0.27	0.33	0.43	0.58	0.64	1.4
Total Phosphorus	59	0	N/A				0.03	0.04	0.05	0.08	0.12	0.19	0.48
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	197.8	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:** 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:** 01/21/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		5.6	7	8	10.4	11.8	12.9	14.2
pH (SU)	57	0	<5	0	0		5.6	7	8	10.4	11.8	12.9	14.2
	57	0	<6	0	0		6.5	7.2	7.4	7.8	8.1	8.5	8.9
	57	0	>9	0	0		6.5	7.2	7.4	7.8	8.1	8.5	8.9
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				49	140	148	187	216	235	336
Water Temperature (°C)	58	0	>32	0	0		6.7	8.1	12.2	19.2	25	28.9	30.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				38	50	61	70	80	83	84
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	11.3	19.2	20
Turbidity (NTU)	59	0	>50	2	3.4		1.4	1.8	2.4	3.7	10	31	280
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	261.7	29	49.2	> 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:** 01/11/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	0	0		6	6.4	6.8	8.3	9.8	11.4	14.9
pH (SU)	58	0	<5	0	0		6	6.4	6.8	8.3	9.8	11.4	14.9
	58	0	<6	0	0		6.5	7	7.4	7.5	7.6	7.7	8
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.5	7	7.4	7.5	7.6	7.7	8
Water Temperature (°C)	58	0	N/A				93	196	241	312	350	386	469
	58	0	>32	0	0		2.9	8.2	11.8	18.4	25	28.3	29.6
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				50	55	59	76	96	109	110
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	15.2	42.2	127
Turbidity (NTU)	59	0	>50	4	6.8		1.3	2.4	3.2	5.6	16	40	170
<b>Nutrients (mg/L)</b>													
NH3 as N	58	19	N/A				0.02	0.02	0.02	0.02	0.04	0.1	1.2
NO2 + NO3 as N	58	0	N/A				0.56	2.39	3.78	6.55	8.43	11	14
TKN as N	57	2	N/A				0.2	0.44	0.55	0.66	0.78	1.1	1.8
Total Phosphorus	58	0	N/A				0.2	0.4	0.48	0.68	1	1.31	1.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	344	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  
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:** 01/11/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	0	0		5.7	6.4	6.9	8.2	9.7	10.6	12.7
pH (SU)	58	0	<5	0	0		5.7	6.4	6.9	8.2	9.7	10.6	12.7
	58	0	<6	0	0		6.5	7.3	7.3	7.5	7.6	7.7	7.9
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.5	7.3	7.3	7.5	7.6	7.7	7.9
Water Temperature (°C)	58	0	N/A				131	232	313	383	416	449	473
	58	0	>32	0	0		6.7	11.6	14.8	20.6	28	30.6	31.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				42	48	60	69	82	90	95
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	11.4	18.3	47
Turbidity (NTU)	59	0	>50	1	1.7		1.3	2.2	3	3.6	8.1	18	60
<b>Nutrients (mg/L)</b>													
NH3 as N	59	18	N/A				0.02	0.02	0.02	0.02	0.04	0.15	1.3
NO2 + NO3 as N	59	0	N/A				1.7	3.6	5.8	9.4	12	14	16
TKN as N	56	1	N/A				0.2	0.55	0.68	0.82	0.96	1.23	2.4
Total Phosphorus	59	0	N/A				0.25	0.47	0.72	1.1	1.4	1.7	2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	342.3	22	37.9	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:** 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:** 01/07/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	0	0		4.7	6.2	6.7	7.8	9.9	12.6	14
	58	0	<5	1	1.7		4.7	6.2	6.7	7.8	9.9	12.6	14
pH (SU)	57	0	<6	0	0		6.5	7.2	7.3	7.4	7.6	7.9	8.4
	57	0	>9	0	0		6.5	7.2	7.3	7.4	7.6	7.9	8.4
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				77	104	138	184	212	226	251
Water Temperature (°C)	58	0	>32	0	0		2.2	7.4	12.2	18.7	23.8	26.6	30.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				27	34	39	58	77	86	86
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	8	16.8	34.5	36
Turbidity (NTU)	59	0	>50	3	5.1		2.7	3.4	5.5	7.5	18	38	130
<b>Nutrients (mg/L)</b>													
NH3 as N	56	29	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.26
NO2 + NO3 as N	56	7	N/A				0.02	0.02	0.05	0.2	0.34	0.39	0.52
TKN as N	56	1	N/A				0.2	0.26	0.3	0.34	0.45	0.62	0.92
Total Phosphorus	56	0	N/A				0.02	0.03	0.04	0.05	0.07	0.13	0.38
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	367.4	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:** 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:** 01/11/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				5.3	6	6.3	6.8	8.3	9.2	10.9
pH (SU)	58	0	N/A				4.1	7	7.2	7.3	7.4	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				42	328	436	537	630	693	727
Water Temperature (°C)	58	0	N/A				7.7	13.6	15.8	20.8	26.3	27.3	28.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				57	82	100	125	160	169	260
TSS (mg/L)	20	1	N/A				6.5	7.3	8	8.6	23.8	53.5	71
Turbidity (NTU)	59	0	N/A				2.8	3.5	4.6	6.4	15	27	170
<b>Nutrients (mg/L)</b>													
NH3 as N	58	1	N/A				0.02	0.03	0.04	0.05	0.06	0.12	0.21
NO2 + NO3 as N	58	0	N/A				2.5	9.6	13.75	17	22	25	27
TKN as N	55	2	N/A				0.2	0.56	0.9	1.1	1.3	1.44	2.2
Total Phosphorus	58	0	N/A				0.23	0.28	0.35	0.42	0.5	0.6	0.68
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	259.4	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:** 01/11/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				5.5	6.5	7	8	9.5	10.2	11.3
pH (SU)	58	0	N/A				6	7	7.3	7.5	7.5	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				119	250	324	403	478	527	574
Water Temperature (°C)	58	0	N/A				5.9	10.4	13.4	19.4	26.3	28.7	31.6
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				55	62	78	98	110	129	130
TSS (mg/L)	20	3	N/A				6.2	6.4	9.2	12	35	110.2	116
Turbidity (NTU)	59	0	N/A				4.1	6.3	8.6	12	27	50	240
<b>Nutrients (mg/L)</b>													
NH3 as N	58	6	N/A				0.02	0.02	0.02	0.03	0.04	0.09	0.15
NO2 + NO3 as N	58	0	N/A				0.95	4.97	7.95	11	15	16	19
TKN as N	58	1	N/A				0.2	0.66	0.75	0.83	0.97	1.1	2
Total Phosphorus	58	0	N/A				0.26	0.32	0.4	0.51	0.69	0.77	0.88
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	315.4	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:** 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:** 01/07/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	5	8.6		1.9	4.7	6.3	7.2	9.6	12.5	13.6
pH (SU)	58	0	<5	6	10.3	47	1.9	4.7	6.3	7.2	9.6	12.5	13.6
	57	0	<6	0	0		6.4	7	7.2	7.4	7.6	7.8	8.5
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.4	7	7.2	7.4	7.6	7.8	8.5
	57	0	N/A				78	109	130	152	185	209	238
Water Temperature (°C)	58	0	>32	0	0		2	7.4	11.5	16.7	22.8	25	27.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	20	41	54	64	72	73
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	13.5	88.5	230
Turbidity (NTU)	59	0	>50	7	11.9	62.2	2.6	4.3	6	12	22	60	140
<b>Nutrients (mg/L)</b>													
NH3 as N	59	27	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.58
NO2 + NO3 as N	59	8	N/A				0.02	0.02	0.08	0.34	0.48	0.76	5.2
TKN as N	59	0	N/A				0.21	0.31	0.39	0.51	0.64	0.95	1.8
Total Phosphorus	58	0	N/A				0.02	0.05	0.07	0.1	0.14	0.21	0.42
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	279.6	18	30.5	96.3									

**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

Chowan

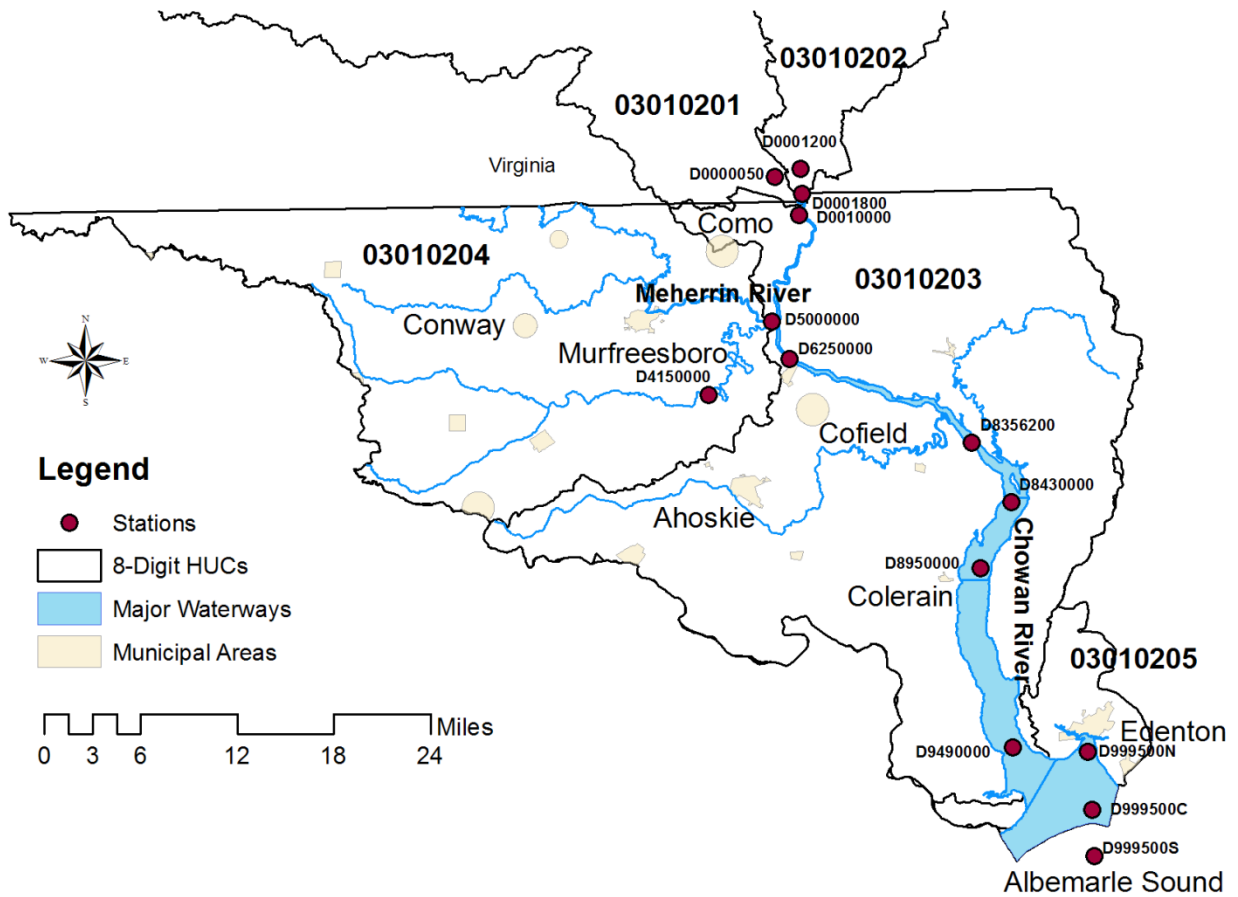


Figure CHO-1. Chowan River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

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

Station ID	Location	Latitude	Longitude	Stream Class
<b>HUC 03010201: Nottaway River</b>				
D0000050	Nottaway River at US 258 near Riverdale, VA	36.5668	-76.9465	II Estuarine
<b>HUC 03010202: Blackwater River</b>				
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
<b>HUC 03010203: Chowan River</b>				
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
<b>HUC 03010204: Meherrin River and Potecasi Creek</b>				
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
<b>HUC 03010205: Albemarle Sound</b>				
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:** 01/28/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	N/A				2.2	3.6	4.6	5.9	9.3	11.2	12.2
pH (SU)	55	0	N/A				5.5	6.2	6.3	6.7	7	7.3	8.2
Salinity (ppt)	53	0	N/A				0.01	0.02	0.03	0.04	0.08	0.1	0.15
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				52	68	80	103	158	205	309
Water Temperature (°C)	55	0	N/A				2.6	5.6	9.9	19.4	25	29.6	31.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				14	22	22	30	31	33	37
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.5
Turbidity (NTU)	55	0	N/A				2.3	3.3	3.8	5	7.1	13	25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	14.6	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:** 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:** 01/28/2010 to 08/26/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	8	0	N/A				2.4	2.4	2.8	4.7	9.6	12.1	12.1
pH (SU)	8	0	N/A				5.5	5.5	6.2	6.6	6.7	6.8	6.8
Salinity (ppt)	7	0	N/A				0.02	0.02	0.02	0.04	0.1	0.14	0.14
Spec. conductance (umhos/cm at 25°C)	7	0	N/A				70	70	76	102	214	296	296
Water Temperature (°C)	8	0	N/A				2.5	2.5	8.9	21.6	29.2	30.6	30.6
<b>Other</b>													
Hardness (mg/L)	3	0	N/A				22	22	22	32	37	37	37
TSS (mg/L)	3	2	N/A				6.2	6.2	6.2	6.2	8	8	8
Turbidity (NTU)	8	0	N/A				3.2	3.2	3.8	5.8	7.2	13	13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
8	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:** 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:** 01/28/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	19	35.2	> 99.9	1.6	3	3.8	4.8	8.5	10.2	11.9
pH (SU)	54	0	<5	28	51.9	> 99.9	1.6	3	3.8	4.8	8.5	10.2	11.9
	55	0	<6	0	0		6	6.3	6.4	6.6	6.9	7.3	8.1
	55	0	>9	0	0		6	6.3	6.4	6.6	6.9	7.3	8.1
Salinity (ppt)	53	0	N/A				0.02	0.03	0.04	0.05	0.07	0.1	0.2
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				62	92	100	116	140	202	290
Water Temperature (°C)	55	0	>32	0	0		2.6	6.2	9.9	19.1	25.1	29	30.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				28	30	31	34	37	46	57
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	11.4	12
Turbidity (NTU)	55	0	>50	0	0		2.2	2.6	3.1	4.4	6	9.1	16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	18.7	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:** 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:** 01/28/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	15	27.3	> 99.9	1.8	2.8	3.9	5.3	8.7	10.5	12.1
pH (SU)	55	0	<5	24	43.6	> 99.9	1.8	2.8	3.9	5.3	8.7	10.5	12.1
	56	0	<6	0	0		6	6.2	6.4	6.7	6.8	7.3	8.3
	56	0	>9	0	0		6	6.2	6.4	6.7	6.8	7.3	8.3
Salinity (ppt)	54	0	N/A				0.02	0.03	0.03	0.04	0.07	0.1	0.11
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				62	76	87	102	146	196	232
Water Temperature (°C)	56	0	>32	0	0		2.4	6	9.6	18.8	25	29	31.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				23	25	27	30	31	36	40
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	12	12	12
Turbidity (NTU)	55	0	>50	0	0		1.7	2.7	3.5	4.5	7.2	11.4	19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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:** POTECASTI 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:** 01/07/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	14	23.7	99.8	1	2.9	4.1	5.8	9	10.9	12.8
pH (SU)	59	0	<5	24	40.7	>99.9	1	2.9	4.1	5.8	9	10.9	12.8
	56	0	<6	18	32.1	>99.9	3.9	5.6	5.8	6.1	6.4	6.5	6.9
Salinity (ppt)	56	0	>9	0	0		3.9	5.6	5.8	6.1	6.4	6.5	6.9
	59	0	N/A				0.01	0.02	0.02	0.03	0.04	0.06	0.07
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				49	61	67	78	108	138	157
Water Temperature (°C)	59	0	>32	0	0		0.1	3.9	8.3	15.1	22.5	24.4	25.6
<b>Other</b>													
Chlorophyll a (ug/L)	58	23	>40	0	0		1	1	1	1	2	3	7
Hardness (mg/L)	20	0	N/A				19	20	20	28	38	44	45
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	12	19.7	21
Turbidity (NTU)	58	0	>50	1	1.7		2.7	5.9	7.8	10	16	36.4	60
<b>Nutrients (mg/L)</b>													
NH3 as N	59	25	N/A				0.02	0.02	0.02	0.02	0.06	0.16	0.57
NO2 + NO3 as N	58	10	N/A				0.02	0.02	0.03	0.07	0.14	0.26	0.88
TKN as N	57	0	N/A				0.37	0.52	0.66	0.85	1.2	1.4	2.4
Total Phosphorus	58	0	N/A				0.05	0.06	0.08	0.13	0.16	0.21	0.34
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	73.8	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:** 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:** 01/28/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	6	10.9	52.3	1.6	3.8	4.4	5.8	8.8	10.7	12.1
pH (SU)	55	0	<5	19	34.5	> 99.9	1.6	3.8	4.4	5.8	8.8	10.7	12.1
	56	0	<6	2	3.6		4.3	6.2	6.4	6.6	7	7.3	8.3
Salinity (ppt)	56	0	>9	0	0		4.3	6.2	6.4	6.6	7	7.3	8.3
	54	0	N/A				0	0.02	0.03	0.03	0.04	0.05	0.1
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				52	66	81	89	101	112	132
Water Temperature (°C)	56	0	>32	0	0		2.8	6	9.6	19.2	24.5	28.7	30.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				15	25	25	28	34	36	36
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	11	12	210
Turbidity (NTU)	56	0	>50	0	0		2.7	3.6	4.4	5.8	12	22.3	33
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	14.4	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:** 01/28/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	7	12.7	69	1.8	3.9	4.5	6	8.8	10.6	12.2
pH (SU)	55	0	<5	20	36.4	> 99.9	1.8	3.9	4.5	6	8.8	10.6	12.2
	56	0	<6	8	14.3	80.6	5.2	5.9	6.2	6.4	6.8	7.2	8.4
Salinity (ppt)	56	0	>9	0	0		5.2	5.9	6.2	6.4	6.8	7.2	8.4
	54	0	N/A				0	0.02	0.03	0.04	0.05	0.06	0.1
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				59	70	83	89	108	133	207
Water Temperature (°C)	56	0	>32	0	0		2.6	6.6	9.9	18.7	25.1	28.6	29.7
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	17	23	29	32	37	42
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	7.3	12	12
Turbidity (NTU)	56	0	>50	0	0		2.5	3.2	4.2	5.9	8.6	14.9	24
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	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
<b>Other</b>												
Hardness (mg/L)	4	0	N/A				33	33	33	34	35	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:** 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:** 01/28/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	50	0	<4	2	4		1.9	4.6	5.9	7.1	8.9	10.8	11.9
pH (SU)	50	0	<5	6	12	61.5	1.9	4.6	5.9	7.1	8.9	10.8	11.9
	50	0	<6	1	2		5.6	6.3	6.7	6.8	7.1	7.3	8
Salinity (ppt)	50	0	>9	0	0		5.6	6.3	6.7	6.8	7.1	7.3	8
	50	0	N/A				0.02	0.02	0.03	0.03	0.04	0.1	1.17
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				60	72	80	90	105	152	2175
Water Temperature (°C)	50	0	>32	1	2		2.8	6.3	10.1	19.8	27.2	30.2	32.3
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				9	20	24	29	30	43	320
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	7.6	12	12
Turbidity (NTU)	50	0	>50	0	0		2.2	3	4	5.3	8.3	11	19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
50	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:** 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:** 01/11/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	50	0	<4	0	0		5.1	7.2	7.9	8.6	10.5	11.7	12.6
pH (SU)	50	0	<5	0	0		5.1	7.2	7.9	8.6	10.5	11.7	12.6
	50	0	<6	2	4		4.3	6.5	7.1	7.4	7.6	7.9	8.4
	50	0	>9	0	0		4.3	6.5	7.1	7.4	7.6	7.9	8.4
Salinity (ppt)	50	0	N/A				0.02	0.02	0.03	0.04	0.07	0.25	1.81
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				63	74	86	100	153	502	3347
Water Temperature (°C)	50	0	>32	0	0		1.5	6.2	10	19	27	29.5	31.4
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				17	20	23	26	34	230	340
TSS (mg/L)	19	18	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	50	0	>50	0	0		2	2.7	3.6	5.8	8	10.9	17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
50	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:** 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:** 01/11/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<4	0	0		6.3	7.5	8.2	8.9	10.5	11.9	13
pH (SU)	51	0	<5	0	0		6.3	7.5	8.2	8.9	10.5	11.9	13
	51	0	<6	0	0		6.2	7.1	7.3	7.5	7.7	7.9	8.9
	51	0	>9	0	0		6.2	7.1	7.3	7.5	7.7	7.9	8.9
Salinity (ppt)	51	0	N/A				0.02	0.03	0.04	0.1	0.5	1.38	2.39
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				73	86	97	213	964	2554	4380
Water Temperature (°C)	51	0	>32	0	0		1.7	7	9.7	18.5	26.5	29	31.6
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				22	24	26	31	90	170	300
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	6.2	7.3	12
Turbidity (NTU)	51	0	>50	0	0		1.6	2.7	3.8	5.1	8.3	12	15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	2.8	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:** 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:** 01/11/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<4	0	0		7.1	7.6	8.3	9.1	10.8	12.3	13.3
pH (SU)	51	0	<5	0	0		7.1	7.6	8.3	9.1	10.8	12.3	13.3
	51	0	<6	0	0		6.3	7.1	7.3	7.5	7.8	8.2	8.5
Salinity (ppt)	51	0	>9	0	0		6.3	7.1	7.3	7.5	7.8	8.2	8.5
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				0.03	0.04	0.06	0.31	1.24	1.7	2.69
Water Temperature (°C)	51	0	N/A				80	104	145	604	2332	3150	4903
	51	0	>32	0	0		1.8	7	10.6	18.9	26.4	28.6	30.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				24	26	31	98	235	354	460
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	12	15	28
Turbidity (NTU)	51	0	>50	0	0		2	2.6	3.4	5.3	7.4	13.6	22
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	2.4	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:** 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:** 01/11/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<4	0	0		7.3	7.6	8	8.9	10.4	12.3	13.4
pH (SU)	51	0	<5	0	0		7.3	7.6	8	8.9	10.4	12.3	13.4
	51	0	<6	0	0		6.7	7.2	7.3	7.6	7.7	8.1	8.5
	51	0	>9	0	0		6.7	7.2	7.3	7.6	7.7	8.1	8.5
Salinity (ppt)	51	0	N/A				0.03	0.04	0.06	0.24	0.99	1.67	2.5
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				86	111	144	484	1920	3079	4578
Water Temperature (°C)	51	0	>32	0	0		1.4	7.7	10.1	20.2	27.2	29.8	30.6
<b>Other</b>													
Hardness (mg/L)	17	0	N/A				22	23	33	64	220	332	460
TSS (mg/L)	18	16	N/A				6.2	6.2	6.2	6.2	6.2	6.8	12
Turbidity (NTU)	51	0	>50	0	0		2.1	2.7	3.2	4.5	6.5	11.5	24
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	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:** 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:** 01/11/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<5	0	0		6.1	7.3	8.2	9.2	10.9	12.3	13.3
pH (SU)	51	0	<6.8	1	2		6.4	7.1	7.3	7.6	7.9	8.2	8.4
	51	0	>8.5	0	0		6.4	7.1	7.3	7.6	7.9	8.2	8.4
Salinity (ppt)	51	0	N/A				0.04	0.04	0.06	0.4	0.8	1.76	2.74
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				94	109	134	765	1528	3256	4988
Water Temperature (°C)	51	0	>32	0	0		1.7	7.2	9.9	18.8	26.3	29.4	30.3
<b>Other</b>													
TSS (mg/L)	18	10	N/A				6.2	6.2	6.2	8.6	11.2	12.2	14
Turbidity (NTU)	51	0	>25	0	0		2.2	3.1	5	6.6	10	18	24
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	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

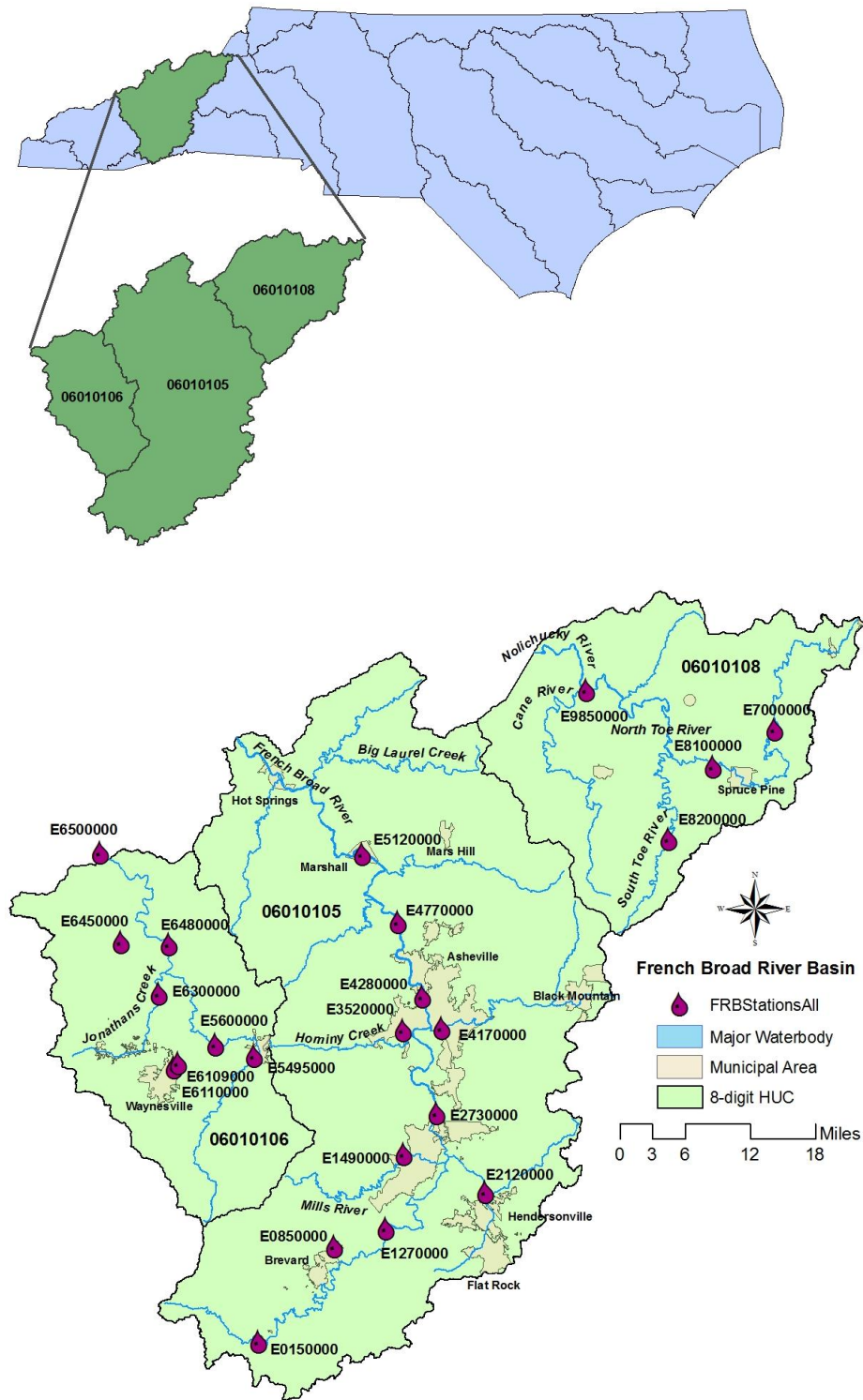


Figure FRB-1. French Broad River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

**Table FRB-1. AMS monitoring stations in the French Broad River basin.**

Station	Location	Latitude	Longitude	Stream Class
<b>HUC 06010105: French Broad River</b>				
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
<b>HUC 06010106: Pigeon River</b>				
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 <sup>1</sup>	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 <sup>2</sup>	Pigeon River at Waterville	35.7851	-83.113	NA
<b>HUC 06010108: Nolichucky River</b>				
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:** 01/20/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<6	0	0		8.6	9	10.1	11	11.6	12.4	13.3
pH (SU)	18	0	<6	0	0		6.1	6.4	6.7	7	7.3	7.5	7.8
	18	0	>9	0	0		6.1	6.4	6.7	7	7.3	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				11	14	15	16	18	19	22
Water Temperature (°C)	18	0	>20	1	5.6		3.9	4.8	8	9.7	14.6	19.5	20.6
	18	0	>29	0	0		3.9	4.8	8	9.7	14.6	19.5	20.6
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				3	3	4	5	5	6	7
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	7	18.5	21
Turbidity (NTU)	59	8	>10	4	6.8		1	1	1.6	2.5	5	9.2	24
<b>Nutrients (mg/L)</b>													
NH3 as N	57	41	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	57	1	N/A				0.02	0.07	0.08	0.12	0.2	0.27	0.39
TKN as N	57	35	N/A				0.2	0.2	0.2	0.2	0.2	0.23	0.55
Total Phosphorus	57	8	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	35.1	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:** 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:** 01/14/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<6	0	0		8.6	8.7	9.2	10.8	11.9	13.1	13.4
pH (SU)	19	0	<6	5	26.3	96.5	5.6	5.6	5.9	6.7	6.8	6.9	7
	19	0	>9	0	0		5.6	5.6	5.9	6.7	6.8	6.9	7
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				11	12	13	14	15	17	18
Water Temperature (°C)	19	0	>20	1	5.3		2.5	3.4	7.2	10.2	17.3	19.8	20.2
	19	0	>29	0	0		2.5	3.4	7.2	10.2	17.3	19.8	20.2
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		2	3	4	4	5	6	6
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.2
Turbidity (NTU)	59	19	>10	3	5.1		1	1	1	1.6	2.8	4.8	25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	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:** 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:** 01/14/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		7.4	7.7	8.2	9.9	11.3	12.1	13.1
pH (SU)	19	0	<5	0	0		7.4	7.7	8.2	9.9	11.3	12.1	13.1
	19	0	<6	2	10.5	42	5.7	5.8	6	6.6	6.9	7	7
Spec. conductance (umhos/cm at 25°C)	19	0	>9	0	0		5.7	5.8	6	6.6	6.9	7	7
	19	0	N/A				19	19	20	23	25	27	29
Water Temperature (°C)	19	0	>29	0	0		2.4	4.8	6.4	10.3	17.3	21	21.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				5	5	6	7	8	10	10
TSS (mg/L)	21	6	N/A				6.2	6.2	6.2	13	23	77	99
Turbidity (NTU)	59	1	>50	2	3.4		1	2.2	3.1	5.6	12	27	75
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
63	143.4	9	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:** 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:** 01/29/2010 to 12/12/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	<6	0	0		8.6	8.7	9.6	10.8	12.2	12.5	13
pH (SU)	20	0	<6	3	15	67.6	5.4	5.9	6.4	6.8	7	7.4	7.9
	20	0	>9	0	0		5.4	5.9	6.4	6.8	7	7.4	7.9
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				12	12	13	14	14	15	16
Water Temperature (°C)	20	0	>20	0	0		3.4	4.4	5.3	10.2	17.2	18.1	19.7
	20	0	>29	0	0		3.4	4.4	5.3	10.2	17.2	18.1	19.7
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		3	3	4	5	5	5	7
TSS (mg/L)	21	12	N/A				6.2	6.2	6.2	6.2	9.4	27.2	38
Turbidity (NTU)	59	7	>10	2	3.4		1	1	1.6	2.6	3.9	6.5	14
<b>Nutrients (mg/L)</b>													
NH3 as N	56	56	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	56	2	>10	0	0		0.02	0.02	0.03	0.04	0.06	0.07	0.1
TKN as N	56	45	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.31
Total Phosphorus	56	42	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	47.8	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:** 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:** 01/14/2010 to 12/12/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	<4	0	0		7.1	7.2	7.9	9.8	11.4	12	13
pH (SU)	20	0	<5	0	0		7.1	7.2	7.9	9.8	11.4	12	13
	20	0	<6	1	5		5.9	6.3	6.5	6.8	6.9	7	7.1
Spec. conductance (umhos/cm at 25°C)	20	0	>9	0	0		5.9	6.3	6.5	6.8	6.9	7	7.1
Water Temperature (°C)	20	0	N/A				27	53	57	61	65	65	66
	20	0	>29	0	0		2.9	4.4	5.2	12	17.5	20.2	20.6
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				16	17	18	18	19	20	20
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	8	26.5	46.2	87
Turbidity (NTU)	60	0	>50	2	3.3		1.6	2	3.1	5.4	10	23.8	95
<b>Nutrients (mg/L)</b>													
NH3 as N	56	13	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.22
NO2 + NO3 as N	56	0	N/A				0.24	0.45	0.56	0.64	0.73	0.84	0.91
TKN as N	55	7	N/A				0.2	0.2	0.21	0.25	0.34	0.4	1.2
Total Phosphorus	56	0	N/A				0.02	0.02	0.02	0.04	0.05	0.07	0.25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	177.9	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:** 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:** 01/19/2010 to 12/12/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	<4	0	0		7.4	7.5	8.3	10.2	11.6	11.8	12.7
pH (SU)	20	0	<5	0	0		7.4	7.5	8.3	10.2	11.6	11.8	12.7
	20	0	<6	0	0		6	6.1	6.4	7	7.1	7.3	7.3
	20	0	>9	0	0		6	6.1	6.4	7	7.1	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				30	31	32	35	38	39	39
Water Temperature (°C)	20	0	>29	0	0		4.1	5	5.7	9.9	17.7	20.8	21.7
<b>Other</b>													
Hardness (mg/L)	23	0	N/A				8	9	10	11	11	13	15
TSS (mg/L)	20	3	N/A				6.2	6.2	7.3	11	22.8	82.8	94
Turbidity (NTU)	58	0	>50	1	1.7		1.1	2.1	4.3	6.8	13	25.2	90
<b>Nutrients (mg/L)</b>													
NH3 as N	53	28	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.13
NO2 + NO3 as N	53	0	N/A				0.14	0.23	0.28	0.31	0.35	0.37	0.43
TKN as N	52	16	N/A				0.2	0.2	0.2	0.2	0.25	0.41	0.67
Total Phosphorus	53	0	N/A				0.02	0.02	0.04	0.05	0.07	0.11	0.57
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	126.9	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:** 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:** 01/19/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	21	0	<4	0	0		8	8.1	9.2	10	12	12.3	12.9
pH (SU)	21	0	<5	0	0		8	8.1	9.2	10	12	12.3	12.9
	21	0	<6	0	0		6.6	6.8	7	7.1	7.3	7.4	7.6
	21	0	>9	0	0		6.6	6.8	7	7.1	7.3	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				57	57	63	70	76	86	89
Water Temperature (°C)	21	0	>29	0	0		4.8	5	6	9.6	17.2	21.1	22.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				19	19	19	22	24	30	33
TSS (mg/L)	21	7	N/A				6.2	6.2	6.2	13	26.5	122.4	343
Turbidity (NTU)	60	0	>50	5	8.3		1.5	2.2	3.5	8.2	12	48.9	170
<b>Nutrients (mg/L)</b>													
NH3 as N	56	32	N/A				0.02	0.02	0.02	0.02	0.03	0.08	0.25
NO2 + NO3 as N	56	0	N/A				0.04	0.41	0.47	0.53	0.59	0.69	0.73
TKN as N	56	17	N/A				0.2	0.2	0.2	0.2	0.28	0.52	1.2
Total Phosphorus	56	7	N/A				0.02	0.02	0.02	0.03	0.04	0.12	0.4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	160.5	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:** 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:** 01/26/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	21	0	<4	0	0		8	8.1	8.9	11	12.2	12.8	13.1
	21	0	<5	0	0		8	8.1	8.9	11	12.2	12.8	13.1
pH (SU)	21	0	<6	0	0		6.5	6.9	7	7.2	7.3	7.4	7.6
	21	0	>9	0	0		6.5	6.9	7	7.2	7.3	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	21	0	N/A				43	44	56	68	78	83	103
Water Temperature (°C)	21	0	>29	0	0		4.5	4.6	6	9.3	16.5	21	22.6
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				14	14	17	23	29	30	47
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	21	108.7	174
Turbidity (NTU)	60	2	>50	4	6.7		1	1.4	2.2	3.9	9.4	22.8	150
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	178.2	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:** 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:** 01/19/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	<4	0	0		7.4	7.8	9.2	10.7	11.6	11.9	12
pH (SU)	20	0	<5	0	0		7.4	7.8	9.2	10.7	11.6	11.9	12
	20	0	<6	0	0		6.2	6.6	6.9	7.2	7.4	7.6	7.8
Spec. conductance (umhos/cm at 25°C)	20	0	>9	0	0		6.2	6.6	6.9	7.2	7.4	7.6	7.8
Water Temperature (°C)	20	0	N/A				32	36	40	44	51	55	57
	20	0	>29	0	0		6.1	6.1	8.5	11	17.3	22	22.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				9	10	12	14	15	18	18
TSS (mg/L)	20	6	N/A				6.2	6.2	6.2	14.5	75.8	144.4	150
Turbidity (NTU)	59	0	>50	6	10.2	45.3	1.6	2.1	3.9	8.4	17	53	80
<b>Nutrients (mg/L)</b>													
NH3 as N	54	32	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.34
NO2 + NO3 as N	54	0	N/A				0.04	0.22	0.29	0.32	0.36	0.41	0.53
TKN as N	54	14	N/A				0.2	0.2	0.2	0.22	0.28	0.56	0.93
Total Phosphorus	54	1	N/A				0.02	0.02	0.03	0.05	0.07	0.17	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
64	115.2	13	20.3	47.4									

**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:** 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:** 01/19/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	<4	0	0		7.8	7.9	9.5	10.9	11.8	12.3	12.7
pH (SU)	20	0	<5	0	0		7.8	7.9	9.5	10.9	11.8	12.3	12.7
	20	0	<6	0	0		6.3	6.8	7.1	7.5	7.7	7.8	7.8
	20	0	>9	0	0		6.3	6.8	7.1	7.5	7.7	7.8	7.8
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				39	41	45	54	58	65	65
Water Temperature (°C)	20	0	>29	0	0		5.4	5.9	9	10.7	17.3	23.8	24.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				12	12	13	16	18	25	25
TSS (mg/L)	21	5	N/A				6.2	6.2	8	22	73	167.2	186
Turbidity (NTU)	59	0	>50	7	11.9	62.2	1.4	2.5	4.8	12	19	55	130
<b>Nutrients (mg/L)</b>													
NH3 as N	56	1	N/A				0.02	0.08	0.12	0.14	0.19	0.24	0.33
NO2 + NO3 as N	56	0	N/A				0.23	0.35	0.39	0.44	0.54	0.67	0.92
TKN as N	56	1	N/A				0.2	0.3	0.37	0.46	0.53	0.7	1
Total Phosphorus	56	0	N/A				0.03	0.06	0.08	0.11	0.16	0.22	0.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
64	86.8	11	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:** 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:** 01/19/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	<4	0	0		7.2	8	9.6	11	11.8	12.7	12.7
pH (SU)	20	0	<5	0	0		7.2	8	9.6	11	11.8	12.7	12.7
	20	0	<6	0	0		6.4	6.5	7	7.4	7.8	7.9	7.9
	20	0	>9	0	0		6.4	6.5	7	7.4	7.8	7.9	7.9
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				38	42	47	52	62	72	75
Water Temperature (°C)	20	0	>29	0	0		5.1	5.7	8.5	11	16.7	22.4	25.3
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				6	13	15	17	19	23	25
TSS (mg/L)	20	4	N/A				6.2	6.2	9.8	17	88.8	165	254
Turbidity (NTU)	60	0	>50	8	13.3	75.1	1.3	2.6	4.4	10.5	23.5	79.5	130
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
65	90.8	14	21.5	57.3									

**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 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:** 01/19/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<6	0	0		8.1	8.3	9.4	11.2	12.2	12.7	13.3
pH (SU)	18	0	<6	0	0		6.2	6.3	6.4	6.8	7.1	7.4	7.5
	18	0	>9	0	0		6.2	6.3	6.4	6.8	7.1	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				16	17	21	22	24	28	28
Water Temperature (°C)	19	0	>20	2	10.5	42	0.2	4.8	5.1	8.7	16.5	20.3	21.1
	19	0	>29	0	0		0.2	4.8	5.1	8.7	16.5	20.3	21.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		4	4	6	7	8	9	12
TSS (mg/L)	21	17	N/A				6.2	6.2	6.2	6.2	6.2	8.3	49
Turbidity (NTU)	60	11	>10	8	13.3	75.1	1	1	1.1	1.6	3.2	13.8	110
<b>Nutrients (mg/L)</b>													
NH3 as N	59	57	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	0.15	0.19	0.22	0.27	0.32
TKN as N	59	43	N/A				0.2	0.2	0.2	0.2	0.2	0.28	0.82
Total Phosphorus	59	44	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.35
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	65.9	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:** 01/26/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<4	0	0		7.3	7.5	8.6	10.1	11.3	12.5	12.6
pH (SU)	18	0	<5	0	0		7.3	7.5	8.6	10.1	11.3	12.5	12.6
	17	0	<6	0	0		7	7.2	7.4	7.8	7.9	8.1	8.2
	17	0	>9	0	0		7	7.2	7.4	7.8	7.9	8.1	8.2
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				31	98	168	364	619	731	989
Water Temperature (°C)	18	0	>29	0	0		2.8	5.1	9	11.4	20.6	23.8	24.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				14	15	21	27	45	59	89
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	8	14.6	136
Turbidity (NTU)	60	1	>50	3	5		1	1.8	2.5	3.6	6.5	16.9	290
<b>Nutrients (mg/L)</b>													
NH3 as N	56	34	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.14
NO2 + NO3 as N	56	0	N/A				0.11	0.15	0.19	0.22	0.26	0.32	0.37
TKN as N	56	4	N/A				0.2	0.2	0.25	0.34	0.51	0.75	2.6
Total Phosphorus	56	0	N/A				0.03	0.05	0.08	0.13	0.2	0.32	1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	137.6	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:** 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 12/05/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	15	0	<4	0	0		6.8	7.5	8.9	10	11.2	12	13
pH (SU)	15	0	<5	0	0		6.8	7.5	8.9	10	11.2	12	13
	15	0	<6	0	0		6.8	6.9	7	7.4	7.5	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	15	0	>9	0	0		6.8	6.9	7	7.4	7.5	7.6	7.7
Water Temperature (°C)	15	0	N/A				41	42	44	55	62	65	69
	15	0	>29	0	0		1.4	5	9.1	13.9	17.9	22.3	23.3
<b>Other</b>													
Hardness (mg/L)	11	0	N/A				14	14	15	16	18	22	22
TSS (mg/L)	11	3	N/A				6.2	6.2	6.2	7.6	10	31	33
Turbidity (NTU)	31	2	>50	0	0		1	1.4	2.9	4	6.4	11.3	27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	179.6	5	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:** 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:** 01/26/2010 to 05/10/2012

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	4	0	<4	0	0		11.9	11.9	11.9	12	12.6	12.7	12.7
pH (SU)	4	0	<5	0	0		11.9	11.9	11.9	12	12.6	12.7	12.7
	4	0	<6	0	0		6.9	6.9	6.9	7.1	7.2	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	4	0	>9	0	0		6.9	6.9	6.9	7.1	7.2	7.2	7.2
Water Temperature (°C)	4	0	N/A				37	37	38	44	56	60	60
	4	0	>29	0	0		4.8	4.8	5.2	6.9	9.4	10	10
<b>Other</b>													
Hardness (mg/L)	9	0	N/A				12	12	14	19	25	28	28
TSS (mg/L)	9	3	N/A				6.2	6.2	6.2	9.8	16	21	21
Turbidity (NTU)	29	0	>50	1	3.4		1.4	2.7	3.7	6.1	7	13	290
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	209.6	6	20.7	46.3									

**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:** 01/26/2010 to 12/05/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<6	0	0		8.5	8.6	9	10.8	11.7	13.2	13.7
pH (SU)	18	0	<6	0	0		6	6.4	6.8	7.3	7.4	7.5	7.6
	18	0	>9	0	0		6	6.4	6.8	7.3	7.4	7.5	7.6
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				35	35	38	42	46	51	51
Water Temperature (°C)	18	0	>20	0	0		0.3	4.1	6.6	10.2	17.1	18.3	19.3
	18	0	>29	0	0		0.3	4.1	6.6	10.2	17.1	18.3	19.3
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				10	10	11	13	14	17	29
TSS (mg/L)	20	6	N/A				6.2	6.2	6.2	9.2	11.8	100.4	287
Turbidity (NTU)	57	2	>10	9	15.8	88.7	1	1.2	2.8	6	7.4	19.4	160
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	248	17	29.8	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:** 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:** 03/30/2010 to 12/05/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	12	0	<6	0	0		8.8	8.8	9	10.4	11	12.4	12.9
pH (SU)	12	0	<6	1	8.3		5.3	5.6	6.8	7	7.1	7.2	7.2
Salinity (ppt)	12	0	>9	0	0		5.3	5.6	6.8	7	7.1	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	1	0	N/A				26	26	26	26	26	26	26
Water Temperature (°C)	12	0	>20	0	0		3.1	4.1	8.1	11.4	17	17.2	17.2
	12	0	>29	0	0		3.1	4.1	8.1	11.4	17	17.2	17.2
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				3	3	4	5	5	6	8
TSS (mg/L)	18	15	N/A				6.2	6.2	6.2	6.2	6.2	11.1	27
Turbidity (NTU)	48	8	>10	1	2.1		1	1	1.2	2	3.3	6.5	11
<b>Nutrients (mg/L)</b>													
NH3 as N	43	43	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	43	3	N/A				0.02	0.02	0.12	0.16	0.19	0.2	0.27
TKN as N	43	31	N/A				0.2	0.2	0.2	0.2	0.2	0.21	0.48
Total Phosphorus	43	18	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
48	11	1	2.1										

**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:** 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:** 01/26/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	17	0	<4	0	0		7.4	8	8.4	11	12	12.7	13.3
pH (SU)	16	0	<5	0	0		7.4	8	8.4	11	12	12.7	13.3
	16	0	<6	0	0		7.1	7.2	7.6	7.8	8.1	8.3	8.4
Spec. conductance (umhos/cm at 25°C)	16	0	>9	0	0		7.1	7.2	7.6	7.8	8.1	8.3	8.4
Water Temperature (°C)	17	0	N/A				33	77	174	215	323	469	549
	17	0	>29	0	0		0.7	4.5	6.5	9.2	20.9	23.4	24.4
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				18	18	20	25	36	42	49
TSS (mg/L)	18	6	N/A				6.2	6.2	6.2	8	18.5	101.9	173
Turbidity (NTU)	57	1	>50	5	8.8		1	2.2	3.5	5.3	8.4	32.6	380
<b>Nutrients (mg/L)</b>													
NH3 as N	55	31	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.18
NO2 + NO3 as N	55	0	N/A				0.28	0.34	0.37	0.42	0.51	0.6	0.67
TKN as N	54	1	N/A				0.2	0.21	0.26	0.32	0.4	0.76	3.7
Total Phosphorus	55	0	N/A				0.04	0.06	0.07	0.09	0.15	0.23	1.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	185	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:** 04/26/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	15	0	N/A				6.7	6.9	8.3	10.7	11.4	12.3	12.4
pH (SU)	14	0	N/A				7.1	7.2	7.2	7.4	7.5	7.8	7.9
Spec. conductance (umhos/cm at 25°C)	15	0	N/A				24	59	107	137	189	258	287
Water Temperature (°C)	15	0	N/A				3.4	4.5	7	10.2	20.4	22.7	22.9
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				7	11	14	16	23	26	26
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	6.2	9	11
Turbidity (NTU)	55	3	N/A				1	1.2	2.3	3.1	4	7	16

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	47	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:** 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:** 01/27/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	16	0	<6	0	0		8.9	8.9	9.6	11.4	12.3	12.5	12.5
pH (SU)	16	0	<6	0	0		6.7	6.8	7.2	7.3	7.7	8.1	8.2
	16	0	>9	0	0		6.7	6.8	7.2	7.3	7.7	8.1	8.2
Spec. conductance (umhos/cm at 25°C)	16	0	N/A				45	47	52	57	62	68	79
Water Temperature (°C)	16	0	>20	1	6.2		3.7	3.8	5.9	7.8	17.9	20.3	21.8
	16	0	>29	0	0		3.7	3.8	5.9	7.8	17.9	20.3	21.8
<b>Other</b>													
Chloride (mg/L)	54	0	>230	0	0		4	5	5	6	7	9	39
Fluoride (mg/L)	54	54	>1.8	0	0		0.2	0.4	0.4	0.4	0.4	0.4	0.4
Hardness (mg/L)	20	0	>100	0	0		13	14	14	16	18	20	21
Sulfate (mg/L)	54	43	>250	0	0		1	2	2	2	2	2	3
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	7.4	17.9	35
Turbidity (NTU)	55	2	>10	8	14.5	81.9	1	1.2	1.7	2.6	5.1	16	40

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	34.7	3	5.6	

**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:** 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:** 02/22/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	17	0	<6	0	0		7.8	8.4	9.2	10.4	12	12.5	13.2
pH (SU)	17	0	<6	0	0		6.5	6.7	7.2	7.3	7.5	8.7	8.7
	17	0	>9	0	0		6.5	6.7	7.2	7.3	7.5	8.7	8.7
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				57	59	72	83	94	117	119
Water Temperature (°C)	17	0	>20	4	23.5	91.7	4.1	4.3	6.2	12.5	19	22.6	24.2
	17	0	>29	0	0		4.1	4.3	6.2	12.5	19	22.6	24.2
<b>Other</b>													
Chloride (mg/L)	52	0	>230	0	0		5	6	6	8	8	11	14
Fluoride (mg/L)	54	27	>1.8	0	0		0.2	0.4	0.4	0.4	0.6	0.85	1.4
Hardness (mg/L)	20	0	N/A				18	20	23	26	36	54	80
Sulfate (mg/L)	53	0	N/A				2	4	6	10	18	25	60
TSS (mg/L)	21	14	N/A				6.2	6.2	6.2	6.2	13.2	79.6	310
Turbidity (NTU)	55	2	>10	10	18.2	95.5	1	1.5	2.1	3.3	5.9	19.6	170

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	43.2	3	5.6	

**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 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:** 01/28/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<6	0	0		8.5	8.6	9.1	10.7	11.6	12.3	12.3
pH (SU)	19	0	<6	2	10.5	42	5.5	5.8	6.3	6.8	7	7	7.1
	19	0	>9	0	0		5.5	5.8	6.3	6.8	7	7	7.1
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				11	13	13	15	16	18	18
Water Temperature (°C)	19	0	>20	0	0		4.4	4.6	6.4	8.6	16.4	19.2	19.6
	19	0	>29	0	0		4.4	4.6	6.4	8.6	16.4	19.2	19.6
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				3	4	4	5	5	5	6
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	6.2	6.5
Turbidity (NTU)	57	33	>10	2	3.5		1	1	1	1	1.6	2.8	11
<b>Nutrients (mg/L)</b>													
NH3 as N	53	53	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	53	4	N/A				0.02	0.02	0.06	0.08	0.1	0.13	0.24
TKN as N	53	47	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.69
Total Phosphorus	53	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	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:** 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:** 02/08/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<6	0	0		8.2	8.3	9.4	11.3	12.5	13.9	14.2
pH (SU)	18	0	<6	0	0		6.1	6.7	7.2	7.8	8.5	8.6	8.9
	18	0	>9	0	0		6.1	6.7	7.2	7.8	8.5	8.6	8.9
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				9	44	49	53	58	61	63
Water Temperature (°C)	18	0	>20	3	16.7	73.3	0	2.2	7.8	11.1	19.6	24.5	25
	18	0	>29	0	0		0	2.2	7.8	11.1	19.6	24.5	25
<b>Other</b>													
Hardness (mg/L)	21	0	N/A				9	14	15	16	19	20	22
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	6.4	18	83.5	104
Turbidity (NTU)	56	6	>10	15	26.8	>99.9	1	1	1.9	4.8	13	20.8	110
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	53	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

## Hiwassee

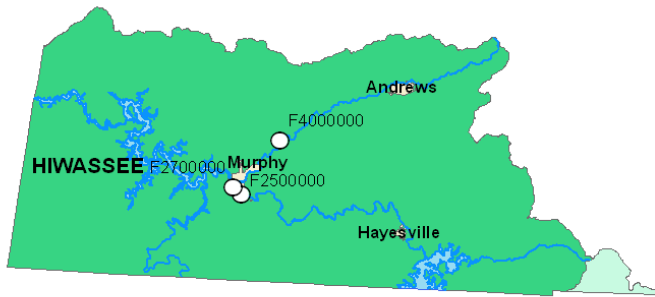


Figure HIW-1. Hiwassee River basin ambient monitoring station locations.

Table HIW-1. AMS monitoring stations in the Hiwassee River basin.

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

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	1	0	<4	0	0		11.4	11.4	11.4	11.4	11.4	11.4
pH (SU)	1	0	<5	0	0		11.4	11.4	11.4	11.4	11.4	11.4
	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
<b>Other</b>												
Hardness (mg/L)	1	0	>100	0	0		8	8	8	8	8	8
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
<b>Nutrients (mg/L)</b>												
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
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
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:** 03/04/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	17	0	<4	0	0		8.5	9.3	9.9	10.7	12	12.7	12.7
pH (SU)	17	0	<5	0	0		8.5	9.3	9.9	10.7	12	12.7	12.7
	17	0	<6	0	0		6.8	6.9	7.3	7.5	8	8.6	8.7
	17	0	>9	0	0		6.8	6.9	7.3	7.5	8	8.6	8.7
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				23	24	26	27	28	30	31
Water Temperature (°C)	17	0	>29	0	0		6.4	7	8.9	12.9	18.6	20.3	22.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				7	8	8	8	10	11	20
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	8	11.9	158
Turbidity (NTU)	54	1	>50	1	1.9		1	1.6	2.2	3.1	5.4	8.2	90
<b>Nutrients (mg/L)</b>													
NH3 as N	53	48	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	53	0	N/A				0.02	0.03	0.07	0.1	0.12	0.15	0.17
TKN as N	53	32	N/A				0.2	0.2	0.2	0.2	0.2	0.23	0.82
Total Phosphorus	52	26	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	49.7	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:** 01/25/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<6	0	0		8.2	8.7	9.2	10.8	12.1	12.7	13
pH (SU)	18	0	<6	0	0		6.3	6.8	7.2	7.4	7.5	7.8	7.8
	18	0	>9	0	0		6.3	6.8	7.2	7.4	7.5	7.8	7.8
Spec. conductance (umhos/cm at 25°C)	18	0	N/A				28	37	42	50	58	62	63
Water Temperature (°C)	18	0	>20	2	11.1	45	6	6.2	8	11.5	18.3	20.8	21.7
	18	0	>29	0	0		6	6.2	8	11.5	18.3	20.8	21.7
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				11	13	14	20	23	30	40
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.4	11.8	65.8	204
Turbidity (NTU)	54	4	>10	3	5.6		1	1.3	2.2	3.4	5.6	7.7	80
<b>Nutrients (mg/L)</b>													
NH3 as N	52	43	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	52	0	N/A				0.16	0.21	0.25	0.28	0.33	0.36	0.38
TKN as N	52	21	N/A				0.2	0.2	0.2	0.2	0.24	0.3	0.68
Total Phosphorus	51	6	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	186.1	12	22.6	63.2									

**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

## Little Tennessee

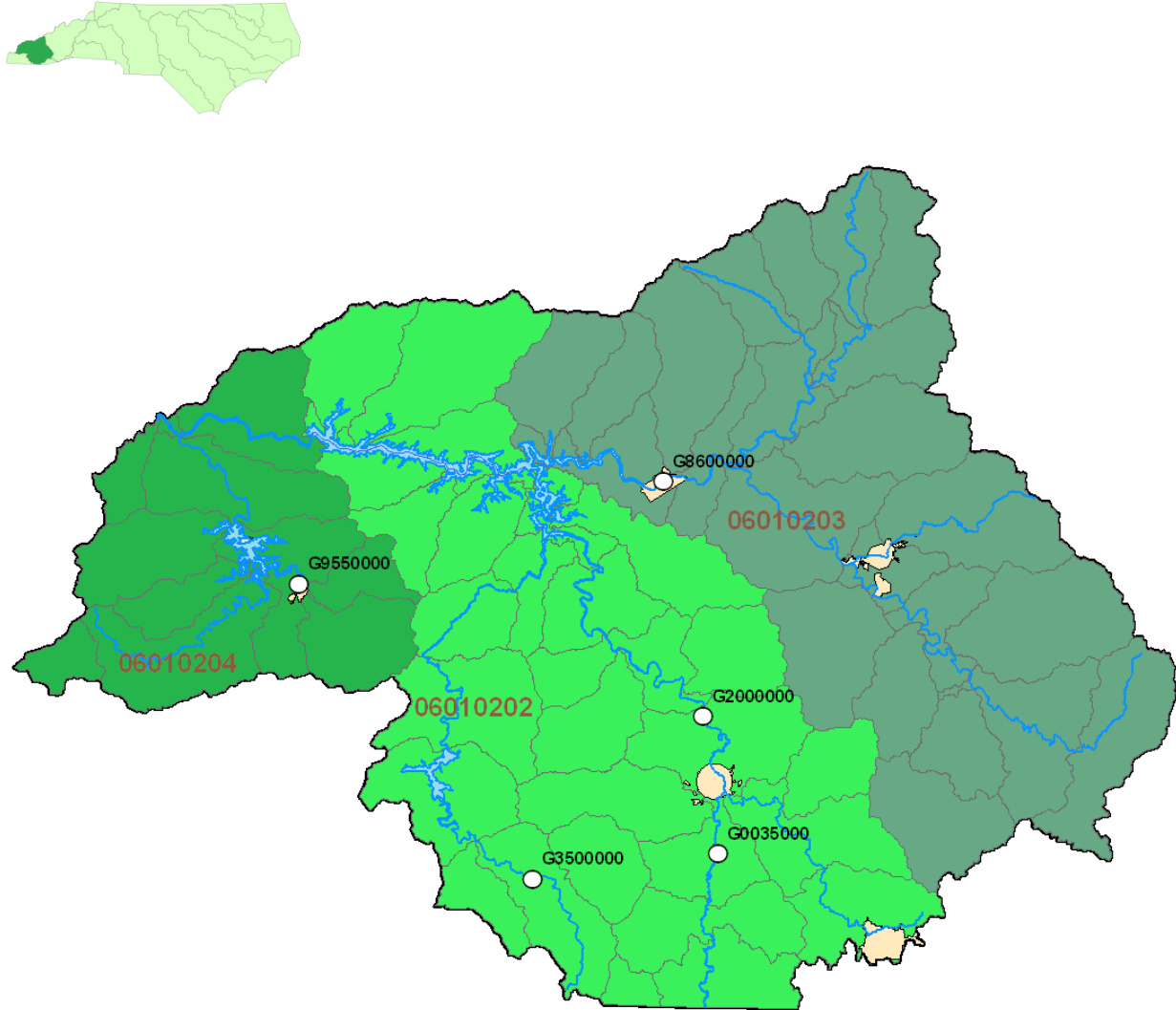


Figure LTN-1. Little Tennessee River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

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Table LTN-1. AMS monitoring stations in the Little Tennessee River basin.

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:** 01/13/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		8	8.5	9	10.4	11.7	11.9	12.8
pH (SU)	19	0	<5	0	0		8	8.5	9	10.4	11.7	11.9	12.8
	20	0	<6	1	5		5.9	6.3	6.7	6.9	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	20	0	>9	0	0		5.9	6.3	6.7	6.9	7.1	7.3	7.4
Water Temperature (°C)	19	0	N/A				12	20	21	23	27	28	29
	20	0	>29	0	0		3.1	4	6.7	10.4	18.4	20.7	22.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				5	6	7	8	9	11	11
TSS (mg/L)	20	4	N/A				6.2	6.2	6.8	10.5	22.8	54.5	99
Turbidity (NTU)	59	0	>50	1	1.7		1.3	2.1	3.4	4.8	9.5	21	85
<b>Nutrients (mg/L)</b>													
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				0.12	0.12	0.12	0.12	0.12	0.12	0.12
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	90.4	7	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:** 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:** 01/13/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		7.8	8.5	9.2	10.6	12.1	12.9	13
pH (SU)	19	0	<5	0	0		7.8	8.5	9.2	10.6	12.1	12.9	13
	20	0	<6	0	0		6.1	6.1	7	7.2	7.4	7.6	7.9
	20	0	>9	0	0		6.1	6.1	7	7.2	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				13	24	26	30	35	37	37
Water Temperature (°C)	20	0	>29	0	0		3	5.5	6.9	9.9	20.2	22.4	24.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				5	8	8	9	11	14	14
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	13.5	18.7	50
Turbidity (NTU)	58	1	>50	1	1.7		1	2.4	3.6	5	8.7	15	60
<b>Nutrients (mg/L)</b>													
NH3 as N	57	51	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	57	0	N/A				0.02	0.09	0.12	0.14	0.17	0.19	0.29
TKN as N	56	25	N/A				0.2	0.2	0.2	0.2	0.2	0.25	0.32
Total Phosphorus	56	10	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	54.8	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:** 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:** 01/13/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<6	0	0		8.7	8.7	9.1	10.6	11.6	12.3	13.3
pH (SU)	20	0	<6	1	5		5.4	6.2	6.5	6.8	7.1	7.1	7.2
	20	0	>9	0	0		5.4	6.2	6.5	6.8	7.1	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				10	10	12	12	14	15	15
Water Temperature (°C)	20	0	>20	0	0		1.5	2	5.6	8.4	15.2	17.6	17.9
	20	0	>29	0	0		1.5	2	5.6	8.4	15.2	17.6	17.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				2	3	4	4	5	6	35
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	11.4	19
Turbidity (NTU)	59	20	>10	0	0		1	1	1	1.4	2.1	3.9	9.1
<b>Nutrients (mg/L)</b>													
NH3 as N	59	58	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	58	21	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.5
TKN as N	58	45	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.42
Total Phosphorus	58	53	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	14.3	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:** 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:** 01/25/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		8.5	9	9.6	10.9	12.5	12.9	13
pH (SU)	19	0	<5	0	0		8.5	9	9.6	10.9	12.5	12.9	13
	19	0	<6	0	0		6.3	6.4	7	7.3	7.7	8.2	8.4
	19	0	>9	0	0		6.3	6.4	7	7.3	7.7	8.2	8.4
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				21	21	25	27	29	31	34
Water Temperature (°C)	19	0	>29	0	0		5.6	5.7	6.4	10.7	18.1	21.3	22.7
<b>Other</b>													
Hardness (mg/L)	22	1	N/A				1	6	7	8	10	25	40
TSS (mg/L)	22	5	N/A				6.2	6.2	6.3	9.8	41	171.4	522
Turbidity (NTU)	57	4	>50	2	3.5		1	1.4	2.1	4	8	25	190
<b>Nutrients (mg/L)</b>													
NH3 as N	55	46	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	55	0	N/A				0.02	0.09	0.12	0.14	0.17	0.21	0.5
TKN as N	55	27	N/A				0.2	0.2	0.2	0.2	0.22	0.3	1.7
Total Phosphorus	54	9	N/A				0.02	0.02	0.02	0.02	0.04	0.1	0.65
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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:** 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:** 01/25/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	17	0	<6	0	0		8.3	8.5	9	9.9	11.4	11.6	11.6
pH (SU)	17	0	<6	0	0		6.4	6.7	7	7.2	7.4	7.4	7.4
	17	0	>9	0	0		6.4	6.7	7	7.2	7.4	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				12	14	30	32	39	41	42
Water Temperature (°C)	17	0	>20	2	11.8	48.1	6.4	7.7	8.5	12	17.6	21.8	22.2
	17	0	>29	0	0		6.4	7.7	8.5	12	17.6	21.8	22.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				8	9	9	12	13	14	14
TSS (mg/L)	21	16	N/A				6.2	6.2	6.2	6.2	7.1	29.2	41
Turbidity (NTU)	52	6	>10	3	5.8		1	1	1.5	2.6	4	6.7	25
<b>Nutrients (mg/L)</b>													
NH3 as N	50	48	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	50	0	N/A				0.02	0.05	0.1	0.11	0.13	0.18	0.2
TKN as N	50	38	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.36
Total Phosphorus	49	26	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
50	77.8	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



## Savannah



Figure SAV-1. Savannah River basin ambient monitoring station locations.

Table SAV-1. AMS monitoring stations in the Savannah River basin.

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:** 01/20/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	17	0	<6	0	0		8	8.2	9.1	10.8	11.7	12.3	12.4
pH (SU)	17	0	<6	0	0		6	6	6.6	6.9	7.1	7.2	7.3
	17	0	>9	0	0		6	6	6.6	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	17	0	N/A				16	18	20	21	24	24	25
Water Temperature (°C)	17	0	>20	2	11.8	48.1	4	5.8	7.1	10.3	16.2	21	22
	17	0	>29	0	0		4	5.8	7.1	10.3	16.2	21	22
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				3	3	5	5	5	7	7
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	7.4	23
Turbidity (NTU)	58	7	>10	1	1.7		1	1	1.3	1.7	2.5	3.9	12
<b>Nutrients (mg/L)</b>													
NH3 as N	55	51	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	55	0	N/A				0.02	0.04	0.05	0.06	0.07	0.08	0.27
TKN as N	55	37	N/A				0.2	0.2	0.2	0.2	0.2	0.25	0.32
Total Phosphorus	55	34	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	15.4	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

Lumber

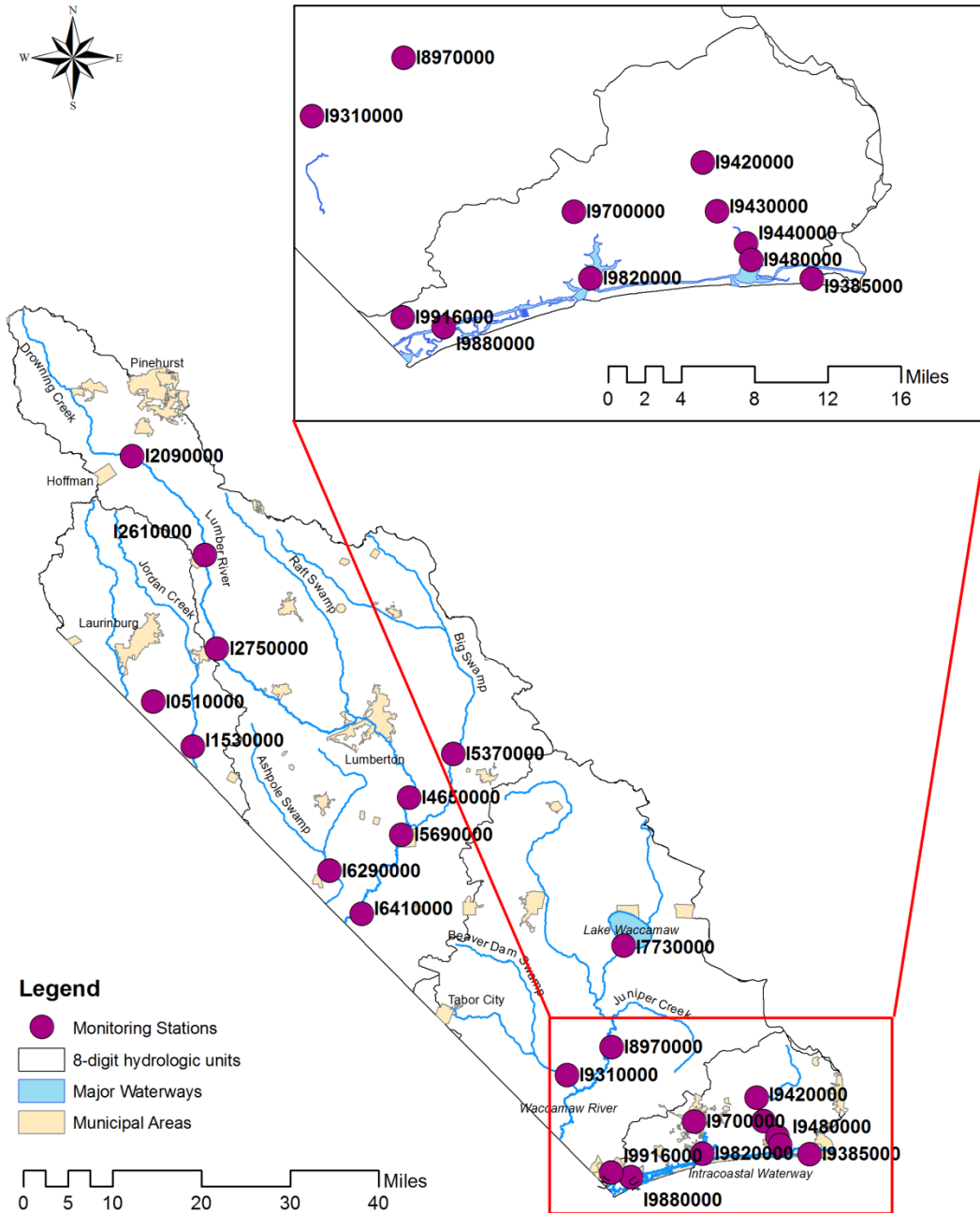


Figure LBR-1. Lumber River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

**Table LBR-1. AMS monitoring stations in the Lumber River basin.**

Station	Location	Latitude	Longitude	Stream Class
<b>HUC 03040203: Lumber River</b>				
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
<b>HUC 03040204: Little Pee Dee River</b>				
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
<b>HUC 03040206: Waccamaw River</b>				
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
<b>HUC 03040208: Long Bay / Atlantic Ocean</b>				
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	Shallotte River at US-17 Business at Shallotte	33.9724	-78.3864	SC
I9820000	Shallotte River at Shell Point near Shallotte	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:** 01/20/2010 to 12/01/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	26	0	N/A				0.9	2.1	3.5	6.8	8.7	11	13
pH (SU)	26	0	<4.3	0	0		5.1	5.5	5.8	6.1	6.2	6.6	6.7
	26	0	>9	0	0		5.1	5.5	5.8	6.1	6.2	6.6	6.7
Spec. conductance (umhos/cm at 25°C)	26	0	N/A				49	70	74	78	84	87	88
Water Temperature (°C)	26	0	>32	0	0		0.9	5.3	8.4	13.8	20.2	24.4	25.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				5	10	14	18	25	28	30
TSS (mg/L)	19	18	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	58	4	>50	0	0		1	1.1	1.8	2.5	3.9	6.2	9.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	102.3	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:** 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:** 01/05/2010 to 12/01/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	25	0	N/A				5	5.1	6	7.8	10.7	12	13.6
pH (SU)	26	0	<4.3	0	0		4.6	5	5.5	5.8	6	6.9	7.2
	26	0	>9	0	0		4.6	5	5.5	5.8	6	6.9	7.2
Spec. conductance (umhos/cm at 25°C)	26	0	N/A				22	49	53	56	59	66	72
Water Temperature (°C)	26	0	>32	0	0		0.6	3.6	6.8	14.2	19.9	25.3	29.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				6	8	8	10	11	12	14
TSS (mg/L)	19	19	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	57	0	>50	0	0		1.1	1.6	2	2.7	3.4	4.7	36
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	93.4	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:** 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:** 03/01/2012 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	15	0	N/A				6.4	6.8	7.9	9.1	11.9	13	14.5
pH (SU)	15	0	<4.3	0	0		4.7	4.7	5.1	5.5	5.9	6.1	6.2
	15	0	>9	0	0		4.7	4.7	5.1	5.5	5.9	6.1	6.2
Spec. conductance (umhos/cm at 25°C)	15	0	N/A				26	27	29	31	32	33	33
Water Temperature (°C)	15	0	>32	0	0		1.8	4.6	7.4	14.3	20.9	22.5	23.6
<b>Other</b>													
Hardness (mg/L)	12	0	N/A				5	6	8	8	9	11	12
TSS (mg/L)	12	11	N/A				6.2	6.2	6.2	6.2	6.2	23.2	28
Turbidity (NTU)	34	0	>50	0	0		1.8	2.3	3	3.9	4.7	5.4	6.1
<b>Nutrients (mg/L)</b>													
NH3 as N	34	26	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.03
NO2 + NO3 as N	34	0	N/A				0.06	0.06	0.11	0.16	0.3	0.44	0.65
TKN as N	34	0	N/A				0.27	0.3	0.34	0.39	0.47	0.57	0.79
Total Phosphorus	34	13	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:
34	78	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:** 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:** 01/20/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	27	0	N/A				5.6	6.1	6.9	8.9	10.5	11.6	14.2
pH (SU)	27	0	<4.3	0	0		4.4	4.8	5	5.7	6	6.2	7.1
	27	0	>9	0	0		4.4	4.8	5	5.7	6	6.2	7.1
Spec. conductance (umhos/cm at 25°C)	27	0	N/A				30	33	36	40	45	58	62
Water Temperature (°C)	27	0	>32	0	0		2.3	4.7	8.2	13.4	18.5	22.9	25.3
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		7	8	9	10	12	14	14
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	6.2	7.4	12
Turbidity (NTU)	57	0	>50	0	0		1.3	1.9	2.4	3.6	4.4	5.8	12
<b>Nutrients (mg/L)</b>													
NH3 as N	57	41	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.38
NO2 + NO3 as N	57	0	>10	0	0		0.04	0.3	0.5	0.76	1.1	1.42	2.2
TKN as N	57	1	N/A				0.2	0.32	0.39	0.47	0.55	0.66	0.78
Total Phosphorus	57	0	N/A				0.02	0.04	0.07	0.1	0.15	0.2	0.73
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	76.3	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:** 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:** 01/20/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	25	0	N/A				5.3	5.5	6.2	7.5	10.6	14.6
pH (SU)	25	0	<4.3	0	0		4.7	5.2	5.6	5.9	6.2	7.1
	25	0	>9	0	0		4.7	5.2	5.6	5.9	6.2	7.1
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				31	35	38	44	48	86
Water Temperature (°C)	25	0	>32	0	0		2.3	5.1	8.5	14.9	20.2	25.4
<b>Other</b>												
Hardness (mg/L)	20	0	N/A				8	8	9	10	12	14
TSS (mg/L)	19	19	N/A				6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	57	0	>50	0	0		1.2	1.6	2.6	3.3	4.4	20
<b>Nutrients (mg/L)</b>												
NH3 as N	57	36	N/A				0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	57	0	N/A				0.03	0.19	0.46	0.63	0.98	1.4
TKN as N	55	0	N/A				0.29	0.33	0.4	0.5	0.57	0.76
Total Phosphorus	57	0	N/A				0.02	0.05	0.06	0.09	0.16	0.2
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
56	80.5	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:** 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:** 01/13/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	23	0	N/A				4.6	5	5.6	8.9	10.7	12.8	13.4
pH (SU)	25	0	<4.3	1	4		3.6	5	5.5	5.8	6.2	6.4	6.9
	25	0	>9	0	0		3.6	5	5.5	5.8	6.2	6.4	6.9
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				57	62	74	87	102	132	170
Water Temperature (°C)	25	0	>32	0	0		2.7	4.6	8	13.4	23.6	27.1	27.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				13	13	15	16	17	20	24
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	7	11.6	12
Turbidity (NTU)	59	0	>50	0	0		1.4	1.6	2.1	2.8	4	8.1	22
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	84.5	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:** 01/13/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	24	0	N/A				3.1	3.8	4	6.4	9.6	14.5
pH (SU)	23	0	<4.3	0	0		4.3	4.8	5	5.3	5.7	7.2
	23	0	>9	0	0		4.3	4.8	5	5.3	5.7	7.2
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				63	64	73	81	86	101
Water Temperature (°C)	24	0	>32	0	0		2.6	4.4	7.7	15.8	24.4	29.7
<b>Other</b>												
Hardness (mg/L)	18	0	N/A				13	14	16	20	20	25
TSS (mg/L)	18	10	N/A				6.2	6.2	6.2	6.5	10.2	92
Turbidity (NTU)	54	1	>50	0	0		1	1.1	2.3	4.2	7.6	15
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
54	92.3	4	7.4									

**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 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:** 01/13/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	23	0	N/A				4.1	4.4	5.3	7.5	10	12.7	13.1
pH (SU)	24	0	<4.3	0	0		4.6	5.2	5.7	5.9	6.2	6.5	6.9
	24	0	>9	0	0		4.6	5.2	5.7	5.9	6.2	6.5	6.9
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				54	62	73	88	104	148	160
Water Temperature (°C)	25	0	>32	0	0		2.2	4.8	7.5	13.3	23.8	27.7	28.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				7	8	14	16	19	20	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	1.5	2.2	2.9	4.3	5.7	11
<b>Nutrients (mg/L)</b>													
NH3 as N	59	28	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.35
NO2 + NO3 as N	59	0	N/A				0.05	0.09	0.18	0.35	0.55	0.78	1
TKN as N	59	0	N/A				0.36	0.46	0.54	0.62	0.8	0.93	1.1
Total Phosphorus	59	0	N/A				0.02	0.02	0.04	0.08	0.12	0.17	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	85.4	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:** 01/13/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	23	0	N/A				0	1.2	3.6	5.1	9.6	10.7	11.2
pH (SU)	24	0	<4.3	0	0		4.8	5.3	5.6	5.9	6.2	6.2	6.3
	24	0	>9	0	0		4.8	5.3	5.6	5.9	6.2	6.2	6.3
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				79	80	91	104	120	141	170
Water Temperature (°C)	25	0	>32	0	0		1.8	4.6	7.7	14.8	22.8	25	26.1
<b>Other</b>													
Hardness (mg/L)	15	0	N/A				22	22	31	40	50	98	150
TSS (mg/L)	15	8	N/A				6.2	6.2	6.2	12	24	37.8	42
Turbidity (NTU)	44	1	>50	1	2.3		1	1.3	3.5	9	16	25.5	430
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
44	95.5	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:** 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:** 01/13/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	23	0	N/A				4.9	5.1	6	8.1	10.1	12.5	13.4
pH (SU)	23	0	<4.3	0	0		4.9	5.5	5.7	6	6.4	6.6	7.3
	23	0	>9	0	0		4.9	5.5	5.7	6	6.4	6.6	7.3
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				65	66	74	86	100	156	176
Water Temperature (°C)	25	0	>32	0	0		2.1	4.8	8.3	14	24.5	28.3	29.6
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				7	14	15	18	19	20	22
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	11.2	12	12
Turbidity (NTU)	58	1	>50	0	0		1	1.3	1.7	2.4	3.6	4.5	19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	61.8	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:** 01/12/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				6.2	7.6	8.2	8.9	10.6	11.9	13.9
pH (SU)	59	0	<4.3	0	0		5.5	6	6.2	6.5	6.8	7.3	7.9
	59	0	>9	0	0		5.5	6	6.2	6.5	6.8	7.3	7.9
Salinity (ppt)	58	0	N/A				0.01	0.02	0.02	0.03	0.03	0.04	0.04
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				55	60	68	81	90	97	103
Water Temperature (°C)	59	0	>32	2	3.4		2.7	8.3	12.8	21.4	28.1	31	32.4
<b>Other</b>													
Chlorophyll a (ug/L)	7	0	>40	0	0		2	2	3	5	9	14	14
Hardness (mg/L)	20	0	N/A				22	23	25	28	31	32	35
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	8	16	38
Turbidity (NTU)	59	0	>25	0	0		1.1	1.5	2.3	3.3	6.8	8.8	20
<b>Nutrients (mg/L)</b>													
NH3 as N	60	56	N/A				0.02	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	0.02	0.08
TKN as N	60	0	N/A				0.56	0.63	0.68	0.75	0.96	1.1	1.5
Total Phosphorus	60	17	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.06

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	13.9	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:** 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:** 01/12/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				2.3	4	4.9	6.1	8	10	12.4
pH (SU)	59	0	<4.3	7	11.9	62.2	3.7	4.2	4.6	5.1	5.3	5.6	6.3
	59	0	>9	0	0		3.7	4.2	4.6	5.1	5.3	5.6	6.3
Salinity (ppt)	58	0	N/A				0.01	0.02	0.02	0.02	0.03	0.03	0.05
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				52	64	69	76	83	96	125
Water Temperature (°C)	59	0	>32	1	1.7		1.4	7.8	11.8	18.4	25.4	28.5	33
<b>Other</b>													
Hardness (mg/L)	21	0	N/A				8	11	20	23	26	30	33
TSS (mg/L)	19	19	N/A				6.2	6.2	6.2	6.2	6.2	6.4	6.8
Turbidity (NTU)	59	0	>50	0	0		1.1	1.4	2.2	2.9	4	5.3	11
<b>Nutrients (mg/L)</b>													
NH3 as N	59	28	N/A				0.02	0.02	0.02	0.02	0.1	0.18	0.43
NO2 + NO3 as N	59	36	N/A				0.02	0.02	0.02	0.02	0.04	0.12	0.35
TKN as N	59	0	N/A				0.68	0.78	0.95	1.2	1.4	1.8	2.3
Total Phosphorus	59	8	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	59.1	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:** 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:** 01/12/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				0.6	1.5	3.7	5.2	7.5	9.4	12.9
pH (SU)	59	0	<4.3	0	0		5.1	5.4	5.6	5.9	6.1	6.2	6.5
	59	0	>9	0	0		5.1	5.4	5.6	5.9	6.1	6.2	6.5
Salinity (ppt)	58	0	N/A				0.02	0.03	0.03	0.04	0.04	0.05	0.08
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				64	84	89	96	104	125	187
Water Temperature (°C)	59	0	>32	0	0		1.6	7.7	10.4	18.1	23.8	27	30
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				7	22	26	30	38	51	63
TSS (mg/L)	19	17	N/A				6.2	6.2	6.2	6.2	7.5	12	12
Turbidity (NTU)	59	0	>50	0	0		1.1	2.4	3.3	4.2	6.5	9.4	19
<b>Nutrients (mg/L)</b>													
NH3 as N	59	23	N/A				0.02	0.02	0.02	0.04	0.14	0.36	1.3
NO2 + NO3 as N	59	33	N/A				0.02	0.02	0.02	0.02	0.05	0.1	0.21
TKN as N	58	0	N/A				0.47	0.56	0.88	1.3	1.5	2.01	3.1
Total Phosphorus	59	3	N/A				0.02	0.02	0.03	0.05	0.07	0.1	0.24
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	109	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:** 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:** 01/12/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<5	9	15.5	87.8	3.3	4.5	5.6	6.6	7.7	9.6	11
pH (SU)	59	0	<6.8	0	0		6.9	7.2	7.3	7.6	7.7	7.8	9.2
	59	0	>8.5	1	1.7		6.9	7.2	7.3	7.6	7.7	7.8	9.2
Salinity (ppt)	58	0	N/A				12.22	19.6	23.7	26.64	31.5	32.65	34.32
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				20503	31500	37340	41522	48213	49784	52044
Water Temperature (°C)	59	0	>32	1	1.7		5.1	10.5	14.6	22.3	28.9	30.6	32.2
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		24	24	24	24	24	24	24
Hardness (mg/L)	1	0	N/A				48	48	48	48	48	48	48
TSS (mg/L)	19	0	N/A				6.2	7.2	14	16	33	35	35
Turbidity (NTU)	59	0	>25	1	1.7		3.2	4.5	5.4	7.7	12	18	31
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
59	18.7	0	0		21	14	24	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:** 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:** 01/28/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	52	0	<5	24	46.2	> 99.9	2.4	3.3	3.7	5.4	7.1	9.2	10.7
pH (SU)	54	0	<6.8	9	16.7	91.3	6.1	6.5	6.9	7.2	7.3	7.5	7.7
Salinity (ppt)	54	0	>8.5	0	0		6.1	6.5	6.9	7.2	7.3	7.5	7.7
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				0.03	0.05	0.08	0.14	0.31	1.16	14.9
Water Temperature (°C)	54	0	>32	0	0		4.7	8.8	13.5	20.6	26.6	28.6	31.9
<b>Other</b>													
TSS (mg/L)	18	10	N/A				6.2	6.2	6.2	6.6	7.5	9.1	12
Turbidity (NTU)	54	0	>25	0	0		3	4.4	4.9	6.4	8.2	9.6	21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	168.9	6	11.5										

**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 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:** 01/28/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	51	0	<5	17	33.3	> 99.9	3.2	3.9	4.6	5.8	7.7	9.2	11.1
pH (SU)	53	0	<6.8	4	7.5		6.4	6.8	7.1	7.3	7.5	7.6	7.7
	53	0	>8.5	0	0		6.4	6.8	7.1	7.3	7.5	7.6	7.7
Salinity (ppt)	53	0	N/A				0.06	0.12	0.64	10.23	20.45	26.55	34.28
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				139	258	1212	17213	32654	41416	51976
Water Temperature (°C)	53	0	>32	0	0		5.9	8.2	14.2	21.6	27	29.4	31.1

Other													
TSS (mg/L)	19	4	N/A				6.2	6.7	8.8	13	18	27	29
Turbidity (NTU)	53	0	>25	0	0		2.8	4.6	6.2	8.4	12	15	21

Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
51	73.9	3	5.9										

**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:** 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:** 01/28/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<5	6	11.8	59.7	3.5	4.8	5.8	6.8	8.2	8.8	10.6
pH (SU)	53	0	<6.8	0	0		6.9	7.3	7.6	7.8	7.9	7.9	8.1
	53	0	>8.5	0	0		6.9	7.3	7.6	7.8	7.9	7.9	8.1
Salinity (ppt)	53	0	N/A				2.5	11.2	22.44	29.92	32.48	33.61	35.14
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				4604	19077	35888	45901	49678	51090	53162
Water Temperature (°C)	53	0	>32	0	0		7.6	9.4	14.6	21.9	27.4	29.3	31
<b>Other</b>													
TSS (mg/L)	19	0	N/A				7.2	8.2	10	14	20	26	58
Turbidity (NTU)	53	0	>25	0	0		2.4	3.9	5.6	7.9	9.2	12	13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
50	15.8	2	4		19	11	22	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:** 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:** 01/28/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<5	2	3.9		4.2	5.5	6.3	7.4	8.6	9.2	10.2
pH (SU)	53	0	<6.8	0	0		7.1	7.6	7.8	7.9	8	8	8.1
	53	0	>8.5	0	0		7.1	7.6	7.8	7.9	8	8	8.1
Salinity (ppt)	53	0	N/A				8.73	21.82	29.66	32.68	33.76	34.34	35.44
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				15536	34417	45741	49870	51248	52045	53524
Water Temperature (°C)	53	0	>32	0	0		8.4	9.7	14.9	21.8	27.4	29.3	30.9
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		6	6	6	6	6	6	6
TSS (mg/L)	19	1	N/A				6.2	9	13	18	28	40	44
Turbidity (NTU)	53	0	>25	0	0		1.5	2.8	4.7	8.5	12	14.6	23
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
52	5.3	1	1.9			4	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:** 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:** 01/12/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	57	0	<5	18	31.6	> 99.9	3.2	3.8	4.4	5.9	8	9.8	12.3
pH (SU)	58	0	<6.8	16	27.6	> 99.9	6.2	6.6	6.7	6.9	7.1	7.1	7.3
	58	0	>8.5	0	0		6.2	6.6	6.7	6.9	7.1	7.1	7.3
Salinity (ppt)	57	0	N/A				0.07	0.2	0.48	2.78	13.88	21.64	33.6
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				164	394	928	5039	22876	34317	51059
Water Temperature (°C)	58	0	>32	0	0		3	8.7	12.8	21	28.6	30.4	31.8
<b>Other</b>													
TSS (mg/L)	19	9	N/A				6.2	6.2	6.2	11	15	21	23
Turbidity (NTU)	58	0	>25	1	1.7		3	4.5	6.3	9	12.2	16.1	45

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
58	168.3	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:** 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:** 01/28/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	<5	3	5.8		4.2	5.3	6	7	8.2	9.1	9.5
pH (SU)	54	0	<6.8	0	0		7.3	7.6	7.8	7.9	8	8	8
	54	0	>8.5	0	0		7.3	7.6	7.8	7.9	8	8	8
Salinity (ppt)	54	0	N/A				20.6	27.34	31.87	33.46	34.34	35.1	35.82
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				32936	42480	48700	50878	51974	53095	54041
Water Temperature (°C)	54	0	>32	0	0		7.8	9.7	14	21.7	27.4	29.1	30.4
<b>Other</b>													
TSS (mg/L)	19	0	N/A				9.8	14	16	18	25	32	58
Turbidity (NTU)	54	0	>25	0	0		1.5	3.8	4.7	7.4	11	15	17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
52	3.1	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:** 01/12/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	53	0	<5	4	7.5		3.4	5	5.2	6	7.8	9.4	10.6
pH (SU)	54	0	<6.8	1	1.9		6.4	7.2	7.5	7.6	7.7	7.8	8
	54	0	>8.5	0	0		6.4	7.2	7.5	7.6	7.7	7.8	8
Salinity (ppt)	54	0	N/A				10.75	18.92	22.72	24.94	28.35	30.17	33.36
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				18227	30502	36241	39726	43830	46362	50734
Water Temperature (°C)	54	0	>32	1	1.9		5.8	9.6	14.7	21.5	28	29.7	32.6
<b>Other</b>													
TSS (mg/L)	18	1	N/A				7	9.2	10	13.5	20.2	30.4	34
Turbidity (NTU)	54	0	>25	0	0		2.3	3.4	4.2	6	7.7	11	17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
53	11.8	0	0			14	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

**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:** 01/12/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<5	11	19	97.3	3.1	4.3	5.2	6.5	8.1	10.1	11.9
pH (SU)	59	0	<6.8	3	5.1		6.4	6.9	7.1	7.4	7.5	7.7	8
	59	0	>8.5	0	0		6.4	6.9	7.1	7.4	7.5	7.7	8
Salinity (ppt)	58	0	N/A				0.28	6.29	12.25	17.1	21.32	24.29	30.17
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				543	11130	20560	27802	34001	38212	46346
Water Temperature (°C)	59	0	>32	3	5.1		4.6	10.1	14.5	22.4	29.2	31.1	32.6
<b>Other</b>													
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)	19	1	N/A				6.2	6.6	9.5	20	31	42	49
Turbidity (NTU)	59	0	>25	9	15.3	86.8	2.9	5.2	7.3	11	20	36	140
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
59	79.6	5	8.5		80	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

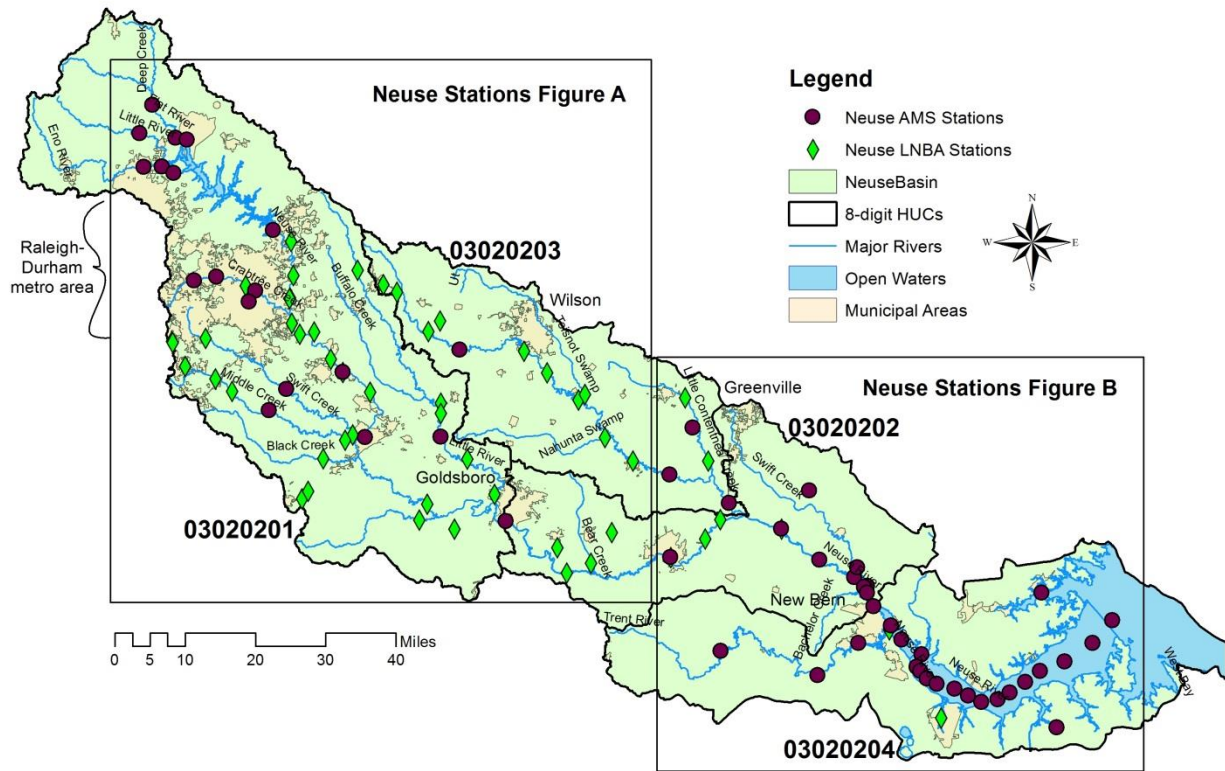
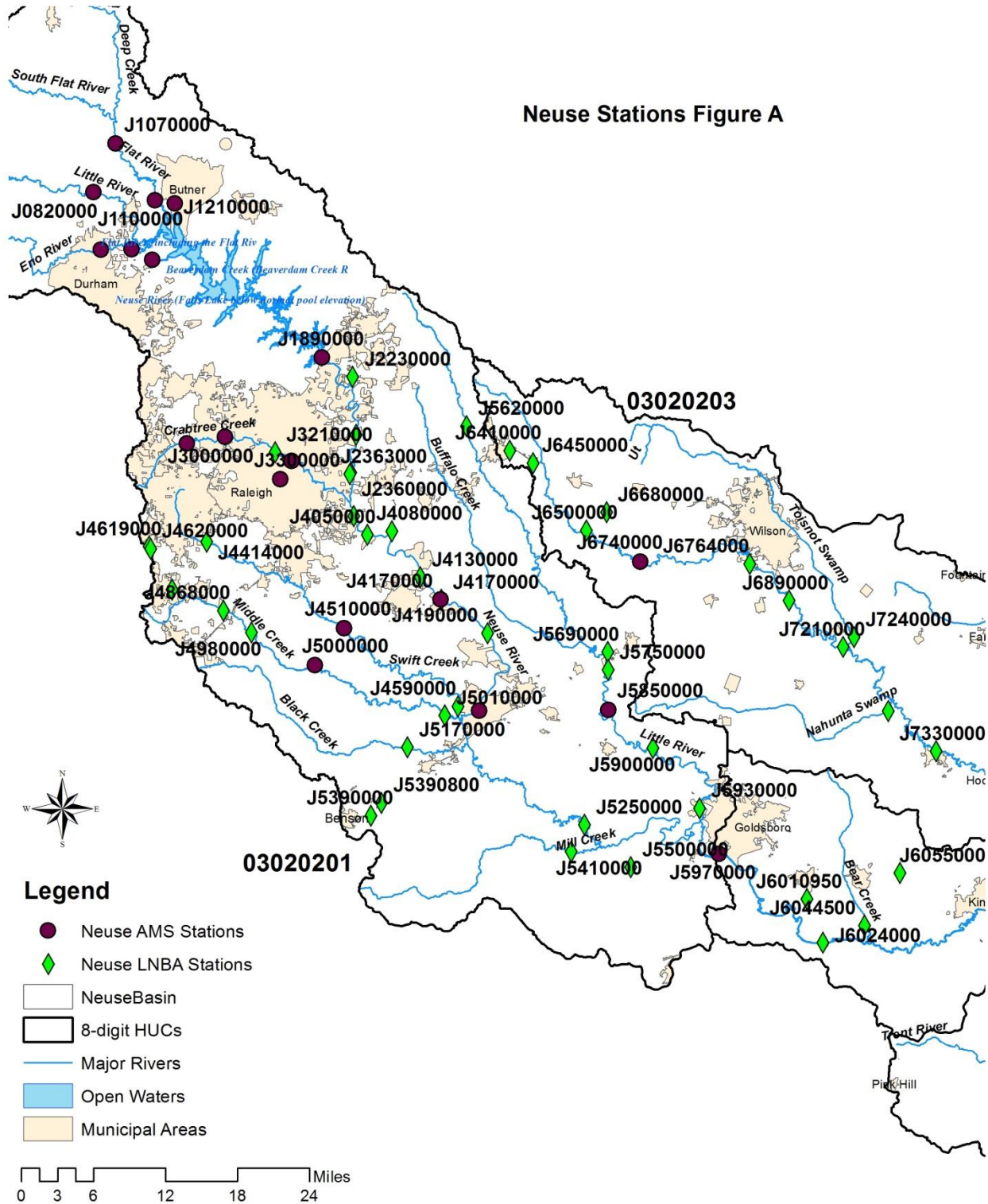
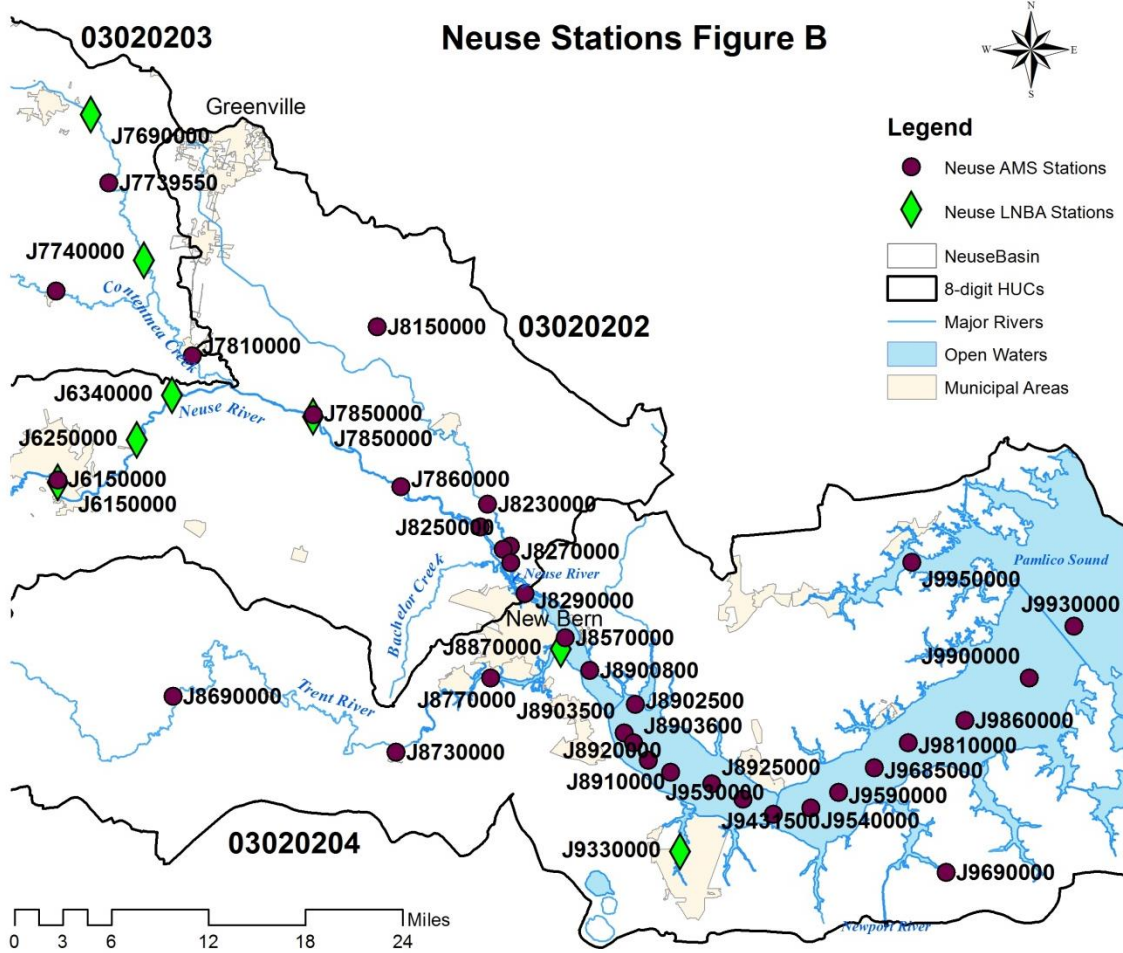


Figure NEU-1. Neuse River basin ambient monitoring station locations (see details below).





NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

**Table NEU-1. AMS monitoring stations in the Neuse River basin.**

Station	Location	Class	Latitude	Longitude
<b>HUC 03020201: Upper Neuse</b>				
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	<i>Neuse River at NC 42 near Clayton</i>	<i>WS-IV NSW</i>	<i>35.6473</i>	<i>-78.4057</i>
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
<b>HUC 03020202: Middle Neuse</b>				
J5970000	Neuse River at SR 1915 near Goldsboro	C NSW	35.3371	-77.9973
J6150000	<i>Neuse River at NC 11 at Kinston</i>	<i>C NSW</i>	<i>35.2588</i>	<i>-77.5835</i>
J7850000	<i>Neuse River at SR 1470 near Fort Barnwell</i>	<i>C Sw NSW</i>	<i>35.3139</i>	<i>-77.3030</i>
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
<b>HUC 03020203: Contentnea</b>				
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
<b>HUC 03020204: Lower Neuse</b>				
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

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

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Station	Location	Class	Latitude	Longitude
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

*Stations in italics are monitoring points for both AMS and LNBA: J4170000, J4370000, J4510000, J6150000, J7850000.*

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

**Table NEU-2. LNBA monitoring stations in the Neuse River basin.**

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
J3290000	Crabtree Creek at US 1 at Raleigh	C NSW	35.8109	-78.6118
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	<i>Neuse River at NC 42 near Clayton</i>	<i>WS-IV NSW</i>	<i>35.6473</i>	<i>-78.4056</i>
J4190000	Neuse River at SR 1908 Fire Dept Drive near Wilsons Mills	WS-IV NSW	35.6067	-78.3374
J4370000	Neuse River at US 70 Business at Smithfield	WS-V NSW	35.5128	-78.3499
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
J4510500	Swift Creek at SR 1525 near Clayton	C NSW	35.6000	-78.5356
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
J5685000	Little River at Weaver Road near Bagley	WS-V NSW	35.5791	-78.1723
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

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
J6044400	Bear Creek at SR 1603 Washington Street near La Grange	C Sw NSW	35.3137	-77.8153
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 La Grange	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
J6765000	Contentnea Crk at Willow Springs Drive near Dixie	C Sw NSW	35.6838	-77.9410
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 Chinguapin 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

*Stations in italics are monitoring points for both AMS and LNBA: J4170000, J4370000, J4510000, 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:** 01/21/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	0	0		4.1	6.3	7.4	9.4	12	13.2	14.8
pH (SU)	37	0	<5	2	5.4		4.1	6.3	7.4	9.4	12	13.2	14.8
	39	0	<6	0	0		6.3	6.8	7.2	7.4	7.6	7.8	8.2
Salinity (ppt)	39	0	>9	0	0		6.3	6.8	7.2	7.4	7.6	7.8	8.2
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				68	96	102	118	126	170	190
Water Temperature (°C)	39	0	>32	0	0		3.3	5.2	7.8	16	23.9	27.6	29.8
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		27	31	32	35	38	42	44
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	12	12	12.9	19
Turbidity (NTU)	39	0	>50	0	0		1.8	2.4	3	5.8	11	18	50
<b>Nutrients (mg/L)</b>													
NH3 as N	38	24	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.06
NO2 + NO3 as N	38	4	>10	0	0		0.02	0.02	0.04	0.15	0.36	0.44	0.52
TKN as N	37	0	N/A				0.2	0.27	0.3	0.35	0.42	0.48	0.64
Total Phosphorus	37	1	N/A				0.02	0.02	0.03	0.03	0.05	0.06	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
38	56.8	4	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:** 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:** 01/21/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	2	5.4		3.1	4.6	6.4	8	10.8	13.2	14.1
pH (SU)	37	0	<5	4	10.8	48.6	3.1	4.6	6.4	8	10.8	13.2	14.1
	39	0	<6	0	0		6.4	6.9	7.1	7.3	7.4	7.6	7.9
Salinity (ppt)	39	0	>9	0	0		6.4	6.9	7.1	7.3	7.4	7.6	7.9
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				75	98	106	121	136	173	189
Water Temperature (°C)	39	0	>32	0	0		3	5.5	8.8	16.2	24.2	27.2	29.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		30	31	33	38	41	45	46
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	6.6	10	13.9	20
Turbidity (NTU)	39	0	>50	0	0		2.6	3.5	5.7	8	12	18	45
<b>Nutrients (mg/L)</b>													
NH3 as N	38	26	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.13
NO2 + NO3 as N	38	5	>10	0	0		0.02	0.02	0.06	0.14	0.34	0.44	0.49
TKN as N	37	0	N/A				0.24	0.29	0.32	0.36	0.49	0.55	0.82
Total Phosphorus	37	0	N/A				0.02	0.02	0.03	0.03	0.06	0.08	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
38	85.3	4	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:** 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:** 01/21/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	0	0		4.1	6.6	7.4	9.4	11.7	13.2	14.7
pH (SU)	37	0	<5	1	2.7		4.1	6.6	7.4	9.4	11.7	13.2	14.7
	39	0	<6	0	0		6.6	6.9	7.2	7.3	7.6	8	8.3
Salinity (ppt)	39	0	>9	0	0		6.6	6.9	7.2	7.3	7.6	8	8.3
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				66	78	88	94	105	113	136
Water Temperature (°C)	39	0	>32	0	0		2	4.4	8.5	15	22.8	25.8	29.7
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		25	28	30	32	34	38	39
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	6.7	52
Turbidity (NTU)	39	0	>50	1	2.6		1.5	2.3	3.7	6.3	12	22	80
<b>Nutrients (mg/L)</b>													
NH3 as N	39	34	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	39	7	>10	0	0		0.02	0.02	0.04	0.17	0.37	0.51	0.67
TKN as N	38	0	N/A				0.22	0.27	0.32	0.36	0.45	0.54	0.7
Total Phosphorus	38	1	N/A				0.02	0.02	0.03	0.04	0.05	0.08	0.18
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
38	74.5	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:** 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:** 01/21/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	1	2.7		3.9	5.6	6.6	8.4	10.9	12.7	14.4
pH (SU)	37	0	<5	2	5.4		3.9	5.6	6.6	8.4	10.9	12.7	14.4
	39	0	<6	0	0		6.4	6.7	6.9	7.2	7.3	7.4	7.8
	39	0	>9	0	0		6.4	6.7	6.9	7.2	7.3	7.4	7.8
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				64	68	78	87	101	108	111
Water Temperature (°C)	39	0	>32	0	0		2.1	4.3	8.4	15.6	22.6	26.2	29.6
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		20	21	26	27	30	33	34
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.6	11.6	13
Turbidity (NTU)	38	0	>50	0	0		2.3	3.2	4.3	7.7	13.2	18.5	33
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
37	56.8	1	2.7										

**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:** 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:** 01/21/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	13	35.1	> 99.9	2.1	2.6	3.6	6.1	9.2	11.3	12.6
pH (SU)	37	0	<5	18	48.6	> 99.9	2.1	2.6	3.6	6.1	9.2	11.3	12.6
	39	0	<6	0	0		6.3	6.6	6.8	6.9	7.1	7.4	7.8
	39	0	>9	0	0		6.3	6.6	6.8	6.9	7.1	7.4	7.8
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				56	62	70	75	82	90	97
Water Temperature (°C)	39	0	>32	0	0		4.3	5.8	8.6	15.9	24.3	27.5	31
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		9	19	22	24	25	31	46
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	7.5	12	13.9	16
Turbidity (NTU)	39	0	>50	1	2.6		1.7	2.5	4.4	7.6	14	25	70
<b>Nutrients (mg/L)</b>													
NH3 as N	39	21	N/A				0.02	0.02	0.02	0.02	0.06	0.11	0.2
NO2 + NO3 as N	39	18	>10	0	0		0.02	0.02	0.02	0.02	0.26	0.33	0.43
TKN as N	38	0	N/A				0.42	0.44	0.52	0.6	0.69	0.76	0.82
Total Phosphorus	38	0	N/A				0.03	0.03	0.04	0.04	0.05	0.08	0.12
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
38	25	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:** 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:** 01/21/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	1	2.7		3.8	5.1	6	7	8.6	10	11.8
pH (SU)	37	0	<5	3	8.1		3.8	5.1	6	7	8.6	10	11.8
	39	0	<6	0	0		6.3	6.7	6.9	7.1	7.2	7.3	7.4
	39	0	>9	0	0		6.3	6.7	6.9	7.1	7.2	7.3	7.4
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				84	108	172	321	416	433	462
Water Temperature (°C)	39	0	>32	0	0		6.1	7.9	12.5	18.8	25.4	28	29.4
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		26	31	40	52	57	62	63
TSS (mg/L)	20	13	N/A				4.5	6.2	6.2	6.2	11	15.6	34
Turbidity (NTU)	39	0	>50	0	0		1	1.4	2.1	3.4	10	14	25
<b>Nutrients (mg/L)</b>													
NH3 as N	38	2	N/A				0.02	0.02	0.03	0.04	0.05	0.07	0.08
NO2 + NO3 as N	38	0	>10	0	0		0.33	0.52	1	3.1	4.2	5.63	6.1
TKN as N	37	0	N/A				0.4	0.54	0.68	0.87	0.99	1.2	1.4
Total Phosphorus	37	0	N/A				0.03	0.04	0.06	0.16	0.34	0.91	1.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
38	47.5	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:** 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:** 01/21/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	1	2.7		2.7	6.2	7	8.6	10.2	11.4	12
pH (SU)	37	0	<5	1	2.7		2.7	6.2	7	8.6	10.2	11.4	12
	39	0	<6	0	0		6.7	7.2	7.3	7.5	7.6	7.7	8
	39	0	>9	0	0		6.7	7.2	7.3	7.5	7.6	7.7	8
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	39	0	N/A				86	215	323	398	452	483	491
Water Temperature (°C)	39	0	>32	0	0		7.5	9.4	12	18.6	24.4	27.1	29
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		38	40	53	64	73	81	84
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	7.8	30	120
Turbidity (NTU)	39	1	>50	2	5.1		1	1.4	2.5	5.2	9.4	19	85
<b>Nutrients (mg/L)</b>													
NH3 as N	39	13	N/A				0.02	0.02	0.02	0.02	0.04	0.87	1.3
NO2 + NO3 as N	39	0	>10	0	0		0.32	0.51	1.2	2.2	3	3.8	6.2
TKN as N	39	0	N/A				0.68	0.77	0.88	1	1.1	2	4.7
Total Phosphorus	38	0	N/A				0.06	0.07	0.08	0.11	0.17	0.27	0.35
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
38	161.1	10	26.3	78.4									

**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:** 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:** 01/14/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	38	0	<4	0	0		4.7	6.4	7	8.6	11.2	13.1	14.5
pH (SU)	38	0	<5	2	5.3		4.7	6.4	7	8.6	11.2	13.1	14.5
	38	0	<6	0	0		6.6	6.7	7	7.2	7.3	7.7	7.9
Salinity (ppt)	38	0	>9	0	0		6.6	6.7	7	7.2	7.3	7.7	7.9
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	37	0	N/A				70	80	84	96	120	131	143
Water Temperature (°C)	38	0	>32	0	0		4	7.9	10.4	18.2	25.6	28.7	30.7
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		22	22	26	27	30	33	33
TSS (mg/L)	19	16	N/A				6.2	6.2	6.2	6.2	7.2	12	12
Turbidity (NTU)	37	0	>50	0	0		2.8	3.3	3.6	4.4	6.7	10.2	12
<b>Nutrients (mg/L)</b>													
NH3 as N	37	8	N/A				0.02	0.02	0.02	0.07	0.14	0.26	0.4
NO2 + NO3 as N	37	19	>10	0	0		0.02	0.02	0.02	0.02	0.12	0.19	0.24
TKN as N	37	0	N/A				0.41	0.45	0.54	0.63	0.71	0.83	1.4
Total Phosphorus	37	0	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
36	5.5	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:** 01/21/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<4	0	0		6.1	6.3	6.7	7.5	9.6	10.4	12.4
pH (SU)	83	0	<6	1	1.2		5.8	6.7	6.8	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	83	0	>9	0	0		5.8	6.7	6.8	7	7.1	7.2	7.3
Water Temperature (°C)	83	0	>32	0	0		84	105	118	142	163	187	206
<b>Other</b>													
TSS (mg/L)	45	2	N/A				1.8	3.1	4.3	6.5	11.5	17.2	68
Turbidity (NTU)	45	0	>50	1	2.2		2.8	4.1	7	9.4	14	23.4	80
<b>Nutrients (mg/L)</b>													
NH3 as N	45	4	N/A				0.02	0.03	0.05	0.07	0.09	0.17	0.67
NO2 + NO3 as N	45	0	N/A				0.15	0.28	0.38	0.73	0.85	0.98	1.63
TKN as N	45	2	N/A				0.2	0.27	0.36	0.61	0.8	1.05	2.32
Total Phosphorus	43	5	N/A				0.02	0.02	0.04	0.05	0.08	0.2	0.37
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
45	218.4	12	26.7	82.5									

**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 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:** 01/21/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	83	0	<4	0	0		5.8	6.5	6.7	7.5	9.7	10.4	11.4
pH (SU)	84	0	<6	0	0		5.8	6.5	6.7	7.5	9.7	10.4	11.4
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		6.5	6.8	7	7.1	7.2	7.4	7.5
Water Temperature (°C)	84	0	N/A				6.5	6.8	7	7.1	7.2	7.4	7.5
			>32	0	0		84	102	108	129	146	166	189
							4.3	7.4	12.1	21.1	25.7	27.4	31.1
<b>Other</b>													
TSS (mg/L)	60	1	N/A				2.9	5.2	8.6	13	16	19.9	129
Turbidity (NTU)	60	0	>50	1	1.7		4	6.2	8.2	13	17	19.9	170
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.02	0.05	0.06	0.09	0.12	0.15	0.36
NO2 + NO3 as N	60	0	N/A				0.02	0.07	0.13	0.22	0.34	0.41	1.02
TKN as N	60	1	N/A				0.2	0.33	0.5	0.62	0.8	1.08	1.48
Total Phosphorus	56	3	N/A				0.02	0.02	0.04	0.05	0.07	0.1	0.38
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	88.9	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:** 01/21/2010 to 12/19/2011

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		5.1	5.4	6.1	6.9	9	10	10.2
pH (SU)	33	0	<5	0	0		5.1	5.4	6.1	6.9	9	10	10.2
	34	0	<6	0	0		6.6	6.6	6.8	7	7.2	7.4	8.1
	34	0	>9	0	0		6.6	6.6	6.8	7	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	34	0	N/A				87	98	105	143	207	230	241
Water Temperature (°C)	34	0	>32	1	2.9		4.4	7.3	12.7	22.2	27.6	29.4	32.5
<b>Other</b>													
TSS (mg/L)	24	2	N/A				2.9	3	4.4	6	10.5	21	28
Turbidity (NTU)	24	0	>50	1	4.2		2.8	3.6	6.1	9	15.8	32	65
<b>Nutrients (mg/L)</b>													
NH3 as N	24	1	N/A				0.01	0.03	0.04	0.07	0.1	0.17	0.52
NO2 + NO3 as N	24	5	N/A				0.01	0.01	0.03	0.12	0.3	0.48	0.53
TKN as N	24	0	N/A				0.28	0.42	0.6	0.7	0.91	1.16	1.21
Total Phosphorus	20	0	N/A				0.03	0.03	0.04	0.06	0.07	0.1	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
24	42.2	4	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:** 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:** 01/14/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	34	0	<4	3	8.8		1.6	3.3	6.5	7.8	10.9	12.1	13.8
pH (SU)	34	0	<5	4	11.8	55.3	1.6	3.3	6.5	7.8	10.9	12.1	13.8
	34	0	<6	0	0		6.8	6.8	7	7.1	7.3	7.6	7.7
Salinity (ppt)	34	0	>9	0	0		6.8	6.8	7	7.1	7.3	7.6	7.7
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				69	77	86	100	146	164	198
Water Temperature (°C)	34	0	>32	0	0		3.1	7.1	11.6	18.4	26	28	31.6
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				19	19	22	28	37	39	41
TSS (mg/L)	19	2	N/A				6.2	9.8	14	14	17	23	26
Turbidity (NTU)	33	0	>50	0	0		6.7	10.8	15	21	29	36.6	50
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	46.3	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:** 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:** 01/14/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	34	0	<4	0	0		5.3	5.8	6.6	7.8	10.9	11.9	12.4
pH (SU)	34	0	<5	0	0		5.3	5.8	6.6	7.8	10.9	11.9	12.4
	34	0	<6	0	0		6.8	7	7.1	7.2	7.4	7.6	7.7
	34	0	>9	0	0		6.8	7	7.1	7.2	7.4	7.6	7.7
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				72	109	180	194	250	345	510
Water Temperature (°C)	34	0	>32	0	0		3.2	7.1	11.4	17	24	26.5	28.9
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				10	25	34	41	48	51	62
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	12	50	151
Turbidity (NTU)	33	0	>50	0	0		2.4	3.1	4.2	7.3	19	36.4	50
<b>Nutrients (mg/L)</b>													
NH3 as N	33	4	N/A				0.02	0.02	0.02	0.04	0.06	0.08	0.1
NO2 + NO3 as N	33	0	N/A				0.06	0.08	0.16	0.28	0.55	0.68	1.1
TKN as N	33	0	N/A				0.45	0.54	0.62	0.71	0.78	0.93	1.1
Total Phosphorus	33	0	N/A				0.04	0.06	0.1	0.14	0.18	0.41	0.65
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	76.2	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:** 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:** 01/21/2010 to 07/23/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	76	0	<4	1	1.3		3.8	5.9	6.4	7.2	9.6	10.3	11.3
	76	0	<5	3	3.9		3.8	5.9	6.4	7.2	9.6	10.3	11.3
pH (SU)	77	0	<6	0	0		6.4	6.7	6.9	7.1	7.2	7.3	7.5
	77	0	>9	0	0		6.4	6.7	6.9	7.1	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				91	114	149	172	204	229	306
Water Temperature (°C)	77	0	>32	0	0		4	7.1	12	21.4	25.4	27.4	30.3
<b>Other</b>													
TSS (mg/L)	55	1	N/A				2.8	4.2	5.8	8.5	14	21	48
Turbidity (NTU)	55	0	>50	1	1.8		4	6	8.4	14	18	24.4	70
<b>Nutrients (mg/L)</b>													
NH3 as N	55	0	N/A				0.02	0.04	0.05	0.08	0.12	0.17	0.48
NO2 + NO3 as N	55	0	N/A				0.06	0.14	0.2	0.32	0.57	0.79	1.72
TKN as N	55	1	N/A				0.2	0.44	0.57	0.75	0.98	1.19	1.61
Total Phosphorus	51	1	N/A				0.02	0.05	0.06	0.09	0.14	0.19	0.32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	165.9	14	25.5	80.3									

**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:** 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:** 01/14/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	34	0	<4	0	0		5.1	5.6	6.9	8.4	10.9	12.2	13.5
pH (SU)	34	0	<5	0	0		5.1	5.6	6.9	8.4	10.9	12.2	13.5
	34	0	<6	1	2.9		4	6.4	6.8	7	7.2	7.4	7.6
Salinity (ppt)	34	0	>9	0	0		4	6.4	6.8	7	7.2	7.4	7.6
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				80	127	147	167	186	268	353
Water Temperature (°C)	34	0	>32	0	0		2.8	7.5	10.6	16.8	23.9	25.9	29.9
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				25	25	36	37	42	47	48
TSS (mg/L)	19	12	N/A				6.2	6.2	6.2	6.2	12	48	58
Turbidity (NTU)	33	0	>50	1	3		2.5	4.4	5.4	7.8	16.5	41.8	55
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	211.7	9	27.3	80									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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 US 1 AT RALEIGH

**Station #:** J3290000

**Hydrologic Unit Code:** 03020201

**Latitude:** 35.81088

**Longitude:** -78.61175

**Stream class:** C NSW

**Agency:** LNBA

**NC stream index:** 27-33-(10)

**Time period:** 08/11/2014 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	7	0	<4	0	0		6.4	6.4	7.4	7.6	10.1	10.7	10.7
pH (SU)	7	0	<5	0	0		6.4	6.4	7.4	7.6	10.1	10.7	10.7
	7	0	<6	0	0		6.8	6.8	6.8	7.1	7.3	7.5	7.5
	7	0	>9	0	0		6.8	6.8	6.8	7.1	7.3	7.5	7.5
Spec. conductance (umhos/cm at 25°C)	7	0	N/A				81	81	86	96	171	177	177
Water Temperature (°C)	7	0	>32	0	0		11	11	11	21.4	25.4	27	27
<b>Other</b>													
TSS (mg/L)	5	0	N/A				5.2	5.2	5.4	9.7	27	36	36
Turbidity (NTU)	5	0	>50	0	0		5.2	5.2	6.8	16	33.5	50	50
<b>Nutrients (mg/L)</b>													
NH3 as N	5	0	N/A				0.02	0.02	0.04	0.06	0.14	0.17	0.17
NO2 + NO3 as N	5	0	N/A				0.19	0.19	0.24	0.33	0.5	0.57	0.57
TKN as N	5	0	N/A				0.81	0.81	0.84	0.9	0.98	1.02	1.02
Total Phosphorus	5	0	N/A				0.04	0.04	0.07	0.11	0.12	0.13	0.13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
5	357.5	2	40										

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/14/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	34	0	<4	0	0		4.3	5.2	5.8	8	9.1	11.1	12.9
pH (SU)	34	0	<5	2	5.9		4.3	5.2	5.8	8	9.1	11.1	12.9
	34	0	<6	0	0		6.6	6.7	6.8	7.1	7.3	7.6	7.9
Salinity (ppt)	34	0	>9	0	0		6.6	6.7	6.8	7.1	7.3	7.6	7.9
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				30	154	266	311	336	377	449
Water Temperature (°C)	34	0	>32	0	0		6.6	8.6	10.5	16.8	21.8	25.3	27.5
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				46	62	73	85	92	100	100
TSS (mg/L)	19	18	N/A				6.2	6.2	6.2	6.2	6.2	6.2	14
Turbidity (NTU)	33	0	>50	0	0		1.4	1.5	2.1	3.4	6.9	14	16
<b>Nutrients (mg/L)</b>													
NH3 as N	2	1	N/A				0.02	0.02	0.02	0.03	0.04	0.04	0.04
NO2 + NO3 as N	2	0	N/A				2.2	2.2	2.2	2.45	2.7	2.7	2.7
TKN as N	1	0	N/A				0.22	0.22	0.22	0.22	0.22	0.22	0.22
Total Phosphorus	2	0	N/A				0.04	0.04	0.04	0.04	0.05	0.05	0.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	1103.4	30	90.9	> 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:** NEUSE RIV AT SR 1007 NR RALEIGH

**Station #:** J3530000

**Hydrologic Unit Code:** 03020201

**Latitude:** 35.75400

**Longitude:** -78.53200

**Stream class:**

**Agency:** LNBA

**NC stream index:**

**Time period:** 10/02/2014 to 12/03/2014

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/21/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	83	0	<4	0	0		5.8	6.3	6.7	7.6	9.8	12.6
pH (SU)	84	0	<6	0	0		5.8	6.3	6.7	7.6	9.8	12.6
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		6.5	6.7	6.8	7	7.2	7.5
Water Temperature (°C)	84	0	N/A	0	0		6.5	6.7	6.8	7	7.2	7.5
							66	108	126	156	174	216
							3.4	6.8	11.2	21	24.5	28.8
<b>Other</b>												
TSS (mg/L)	60	12	N/A				2.8	2.9	3.3	5.1	9.2	37
Turbidity (NTU)	60	0	>50	0	0		3.8	6.6	7.5	10.5	15	40
<b>Nutrients (mg/L)</b>												
NH3 as N	60	0	N/A				0.02	0.03	0.06	0.08	0.1	0.4
NO2 + NO3 as N	60	0	N/A				0.08	0.17	0.29	0.34	0.46	0.67
TKN as N	60	2	N/A				0.2	0.32	0.37	0.48	0.61	2.03
Total Phosphorus	56	6	N/A				0.02	0.02	0.03	0.05	0.07	0.39
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
60	185.4	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:** 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:** 01/21/2010 to 09/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	80	0	<4	0	0		5.9	6.5	6.7	7.4	9.4	10.6	11.3
pH (SU)	81	0	<6	0	0		5.9	6.5	6.7	7.4	9.4	10.6	11.3
Spec. conductance (umhos/cm at 25°C)	81	0	>9	0	0		6.6	6.8	6.9	7.1	7.2	7.3	7.5
Water Temperature (°C)	81	0	>32	1	1.2		6.6	6.8	6.9	7.1	7.2	7.3	7.5
<b>Other</b>													
TSS (mg/L)	57	2	N/A				94	103	115	139	158	172	182
Turbidity (NTU)	57	0	>50	0	0		4	7.2	12.2	21.8	25.8	28	32.4
<b>Nutrients (mg/L)</b>													
NH3 as N	57	3	N/A				2.9	4	6.5	12	18.5	29	72
NO2 + NO3 as N	57	0	N/A				3.9	5.6	8.1	13	23	31	50
TKN as N	57	0	N/A				0.02	0.03	0.05	0.09	0.11	0.13	0.42
Total Phosphorus	53	4	N/A				0.04	0.11	0.16	0.24	0.32	0.4	0.47
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	129.2	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:** 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:** 01/21/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	83	0	<4	0	0		6.1	6.6	7.1	7.6	9.8	12.2
pH (SU)	83	0	<5	0	0		6.1	6.6	7.1	7.6	9.8	12.2
	84	0	<6	0	0		6.6	6.8	7	7.1	7.2	7.5
	84	0	>9	0	0		6.6	6.8	7	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				74	106	114	126	156	217
Water Temperature (°C)	84	0	>32	0	0		2.8	5.8	11.2	19.7	23.8	28.6
<b>Other</b>												
TSS (mg/L)	60	8	N/A				2.9	3	3.8	6.6	11.8	1210
Turbidity (NTU)	60	0	>50	2	3.3		3.3	5.1	6.8	11	14	85
<b>Nutrients (mg/L)</b>												
NH3 as N	60	2	N/A				0.02	0.04	0.06	0.09	0.14	0.5
NO2 + NO3 as N	60	0	N/A				0.5	0.78	1.24	1.68	2.23	3.39
TKN as N	60	1	N/A				0.2	0.36	0.54	0.7	0.89	1.37
Total Phosphorus	56	0	N/A				0.07	0.09	0.11	0.15	0.26	0.94
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
60	256.2	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:** 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 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		5.9	6.5	6.8	7.5	9.7	10.4	11.8
pH (SU)	55	0	<5	0	0		5.9	6.5	6.8	7.5	9.7	10.4	11.8
	55	0	<6	0	0		6.6	6.7	6.9	7	7.1	7.2	7.3
	55	0	>9	0	0		6.6	6.7	6.9	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				71	87	104	129	143	177	207
Water Temperature (°C)	55	0	>32	0	0		3.1	7.2	10.8	20	23.8	25.3	27.1
<b>Other</b>													
TSS (mg/L)	40	7	N/A				2.8	2.9	3.1	5.6	9.8	14.8	41
Turbidity (NTU)	40	0	>50	0	0		3	5	6.1	8.2	12	17.9	40
<b>Nutrients (mg/L)</b>													
NH3 as N	40	3	N/A				0.02	0.02	0.03	0.06	0.08	0.11	0.19
NO2 + NO3 as N	40	3	N/A				0.02	0.03	0.07	0.13	0.2	0.32	0.51
TKN as N	40	0	N/A				0.25	0.33	0.44	0.56	0.71	0.86	1.01
Total Phosphorus	40	4	N/A				0.02	0.02	0.04	0.05	0.06	0.11	0.22
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
40	95.7	2	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 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:** 01/21/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	83	0	<4	0	0		5.7	6.3	6.6	7.3	9.3	10.3	11.2
pH (SU)	83	0	<5	0	0		5.7	6.3	6.6	7.3	9.3	10.3	11.2
	84	0	<6	0	0		6.7	6.8	6.9	7	7.2	7.2	7.5
	84	0	>9	0	0		6.7	6.8	6.9	7	7.2	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				95	127	149	170	218	244	312
Water Temperature (°C)	84	0	>32	0	0		3.7	8.1	12.6	21.6	26.1	28.1	31.6
<b>Other</b>													
TSS (mg/L)	60	4	N/A				1	3.5	7	14.5	22	36	123
Turbidity (NTU)	60	0	>50	1	1.7		3.4	5.1	8.3	12	23.8	33.9	60
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.03	0.04	0.07	0.1	0.13	0.33
NO2 + NO3 as N	60	0	>10	0	0		0.08	0.2	0.33	0.46	0.78	1.19	1.46
TKN as N	60	0	N/A				0.36	0.48	0.59	0.72	1.01	1.31	1.75
Total Phosphorus	56	0	N/A				0.03	0.07	0.1	0.16	0.29	0.47	0.64
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	111.1	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:** 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:** 01/21/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	83	0	<4	0	0		5.1	6.3	6.6	7.3	9.3	10.2	10.9
pH (SU)	83	0	<5	0	0		5.1	6.3	6.6	7.3	9.3	10.2	10.9
	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				106	124	149	178	207	248	315
Water Temperature (°C)	84	0	>32	0	0		3.8	8.2	12.4	21.6	26.1	28	31
<b>Other</b>													
TSS (mg/L)	60	3	N/A				2.8	3.5	5.2	10.5	22.8	36.7	81
Turbidity (NTU)	60	0	>50	0	0		3.1	4.5	7.9	11.5	22	31.8	45
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.02	0.03	0.05	0.08	0.1	0.13	0.37
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.22	0.31	0.44	0.62	0.91	1.21
TKN as N	60	1	N/A				0.2	0.46	0.56	0.71	0.94	1.16	2.49
Total Phosphorus	56	0	N/A				0.05	0.07	0.1	0.16	0.27	0.47	0.72
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	100.4	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 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:** 01/07/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		4.9	5.8	6.5	8.2	11	12.7	14.8
pH (SU)	33	0	<5	1	3		4.9	5.8	6.5	8.2	11	12.7	14.8
	33	0	<6	0	0		6.3	6.6	6.8	7.1	7.4	7.5	8.2
Salinity (ppt)	33	0	>9	0	0		6.3	6.6	6.8	7.1	7.4	7.5	8.2
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				22	106	132	172	212	276	291
Water Temperature (°C)	33	0	>32	0	0		4.5	7.6	8.9	17.1	23.8	27.7	30.8
<b>Other</b>													
Hardness (mg/L)	21	0	>100	0	0		15	28	30	33	37	39	39
TSS (mg/L)	21	7	N/A				6.2	6.2	6.5	9.2	24	30.6	46
Turbidity (NTU)	33	0	>50	1	3		3.7	4.5	6.8	13	20.5	30	150
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	134.6	8	24.2	66.5									

**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 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:** 01/21/2010 to 07/23/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	76	0	<4	0	0		5.7	6.4	6.7	7.4	9.4	10.3	11.2
pH (SU)	77	0	<6	0	0		6.6	6.8	6.9	7	7.2	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	77	0	>9	0	0		6.6	6.8	6.9	7	7.2	7.3	7.8
Water Temperature (°C)	77	0	>32	1	1.3		3.5	7.8	12.2	21.3	26.4	28	32.1
<b>Other</b>													
TSS (mg/L)	55	4	N/A				1.8	3.3	6.1	13	24	47.2	291
Turbidity (NTU)	55	0	>50	2	3.6		3.3	5.1	8.1	13	20	36.2	65
<b>Nutrients (mg/L)</b>													
NH3 as N	55	6	N/A				0.02	0.02	0.05	0.07	0.09	0.1	0.4
NO2 + NO3 as N	55	0	>10	0	0		0.07	0.18	0.3	0.41	0.62	0.82	1.15
TKN as N	55	0	N/A				0.2	0.45	0.55	0.74	0.98	1.36	1.92
Total Phosphorus	51	0	N/A				0.03	0.05	0.09	0.16	0.28	0.43	0.53
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	118	9	16.4										

**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:** 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:** LNBA

**NC stream index:** 27-(41.7)

**Time period:** 08/05/2014 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	7	0	<4	0	0		6.7	6.7	7.1	7.3	8.3	9.9	9.9
pH (SU)	7	0	<5	0	0		6.7	6.7	7.1	7.3	8.3	9.9	9.9
	7	0	<6	0	0		6.9	6.9	7	7.1	7.2	7.2	7.2
	7	0	>9	0	0		6.9	6.9	7	7.1	7.2	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	7	0	N/A				109	109	118	130	142	145	145
Water Temperature (°C)	7	0	>32	0	0		11.6	11.6	17.2	20.9	25.7	27.3	27.3
<b>Other</b>													
TSS (mg/L)	5	0	N/A				4.9	4.9	6.8	9.2	21.5	28	28
Turbidity (NTU)	5	0	>50	0	0		6.8	6.8	8.4	12	27.5	35	35
<b>Nutrients (mg/L)</b>													
NH3 as N	5	0	N/A				0.06	0.06	0.06	0.06	0.08	0.08	0.08
NO2 + NO3 as N	5	0	>10	0	0		0.41	0.41	0.42	0.53	0.84	0.9	0.9
TKN as N	5	0	N/A				0.64	0.64	0.83	1.13	1.23	1.31	1.31
Total Phosphorus	5	0	N/A				0.14	0.14	0.14	0.29	0.55	0.63	0.63
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
5	155.1	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 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:** 01/07/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		5.8	5.9	6.4	8.5	11	12	12.7
pH (SU)	33	0	<5	0	0		5.8	5.9	6.4	8.5	11	12	12.7
	33	0	<6	0	0		6.6	6.8	7	7.2	7.4	7.6	7.9
	33	0	>9	0	0		6.6	6.8	7	7.2	7.4	7.6	7.9
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				72	108	130	162	202	270	297
Water Temperature (°C)	33	0	>32	0	0		3.4	7.2	9.8	15.9	24.2	28.4	29.5
<b>Other</b>													
Hardness (mg/L)	21	0	>100	0	0		13	27	30	33	37	40	41
TSS (mg/L)	21	3	N/A				6.2	6.2	10.1	15	31	48.8	54
Turbidity (NTU)	33	0	>50	2	6.1		4	5.3	11.5	17	23	37.6	130
<b>Nutrients (mg/L)</b>													
NH3 as N	32	15	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.07
NO2 + NO3 as N	32	0	>10	0	0		0.26	0.27	0.33	0.46	0.66	0.99	1.1
TKN as N	32	0	N/A				0.4	0.43	0.48	0.55	0.62	0.71	1.3
Total Phosphorus	32	0	N/A				0.1	0.12	0.14	0.22	0.3	0.47	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	166.6	9	27.3	80									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/21/2010 to 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	83	0	<4	1	1.2		3.3	5.6	6.4	7.1	8.7	10.3	12.4
pH (SU)	83	0	<5	5	6		3.3	5.6	6.4	7.1	8.7	10.3	12.4
	84	0	<6	0	0		6.4	6.6	6.7	6.9	7.1	7.2	7.4
	84	0	>9	0	0		6.4	6.6	6.7	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				60	72	90	115	165	212	277
Water Temperature (°C)	84	0	>32	0	0		2.8	7.2	12.1	21	24.5	26	29.4
<b>Other</b>													
TSS (mg/L)	59	8	N/A				2.8	2.9	3.8	7.4	12	17	88
Turbidity (NTU)	59	0	>50	1	1.7		1.6	6	7.4	10	14	24	70
<b>Nutrients (mg/L)</b>													
NH3 as N	59	2	N/A				0.02	0.04	0.06	0.09	0.11	0.17	0.25
NO2 + NO3 as N	59	5	>10	0	0		0.01	0.03	0.07	0.13	0.45	1.45	1.99
TKN as N	59	0	N/A				0.26	0.4	0.5	0.69	0.89	1.41	2.05
Total Phosphorus	55	3	N/A				0.02	0.03	0.05	0.06	0.07	0.12	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	130.6	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 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	2	3.6		2.7	4.4	6.7	7.2	9.3	10.3	11.6
pH (SU)	56	0	<5	7	12.5	67.3	2.7	4.4	6.7	7.2	9.3	10.3	11.6
	56	0	<6	0	0		6.5	6.7	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	56	0	>9	0	0		6.5	6.7	6.8	7	7.1	7.2	7.4
Water Temperature (°C)	56	0	N/A				68	86	112	146	163	171	214
	56	0	>32	0	0		2.7	7.7	10.8	20.5	25	26.2	27.3
<b>Other</b>													
TSS (mg/L)	40	3	N/A				2.8	3.4	5.3	8.7	16	19.8	35
Turbidity (NTU)	40	0	>50	1	2.5		3.6	5.6	8.8	13	20	30.7	290
<b>Nutrients (mg/L)</b>													
NH3 as N	40	2	N/A				0.02	0.03	0.05	0.08	0.11	0.19	1.88
NO2 + NO3 as N	40	1	N/A				0.02	0.04	0.06	0.18	0.51	0.94	1.18
TKN as N	40	0	N/A				0.37	0.52	0.76	0.87	1.02	1.52	3.24
Total Phosphorus	40	1	N/A				0.02	0.03	0.05	0.08	0.18	0.31	0.83
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
40	111.5	7	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:** 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 07/24/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	49	0	<4	0	0		5.6	6.3	6.6	7.3	9	10.3	12.1
pH (SU)	49	0	<5	0	0		5.6	6.3	6.6	7.3	9	10.3	12.1
	49	0	<6	0	0		6.6	6.7	6.8	6.9	7.1	7.2	7.3
	49	0	>9	0	0		6.6	6.7	6.8	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	49	0	N/A				72	89	123	155	171	186	216
Water Temperature (°C)	49	0	>32	0	0		2.1	7.3	10.6	20	24	24.9	26.8
<b>Other</b>													
TSS (mg/L)	35	7	N/A				2.9	2.9	3.3	7.6	16	33.8	99
Turbidity (NTU)	35	0	>50	2	5.7		3.2	4.7	6.4	8.8	14	40.8	120
<b>Nutrients (mg/L)</b>													
NH3 as N	35	1	N/A				0.02	0.03	0.04	0.06	0.09	0.11	0.26
NO2 + NO3 as N	35	1	N/A				0.02	0.06	0.1	0.22	0.36	0.49	0.81
TKN as N	35	0	N/A				0.29	0.36	0.49	0.7	0.91	1.46	3.09
Total Phosphorus	35	2	N/A				0.02	0.04	0.05	0.06	0.12	0.19	0.67
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
35	122.4	5	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:** 01/07/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		4.1	5	6.5	7.8	10.8	11.6	13.2
pH (SU)	33	0	<5	2	6.1		4.1	5	6.5	7.8	10.8	11.6	13.2
	33	0	<6	0	0		6	6.6	6.8	7	7.2	7.6	8.2
Salinity (ppt)	33	0	>9	0	0		6	6.6	6.8	7	7.2	7.6	8.2
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				65	71	78	88	94	100	100
Water Temperature (°C)	33	0	>32	0	0		1.4	6.5	9	14.6	22.4	26.5	26.8
<b>Other</b>													
Hardness (mg/L)	21	0	N/A				19	21	24	25	29	30	34
TSS (mg/L)	21	15	N/A				6.2	6.2	6.2	12	12	18.8	31
Turbidity (NTU)	33	0	>50	0	0		2.8	3.6	5.9	7.6	13.5	22.2	24
<b>Nutrients (mg/L)</b>													
NH3 as N	33	5	N/A				0.02	0.02	0.02	0.03	0.06	0.08	0.1
NO2 + NO3 as N	33	1	N/A				0.02	0.05	0.12	0.17	0.21	0.28	0.31
TKN as N	33	0	N/A				0.28	0.33	0.41	0.48	0.57	0.64	0.68
Total Phosphorus	33	0	N/A				0.02	0.03	0.04	0.05	0.06	0.07	0.13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	165.1	6	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:** SWIFT CRK AT SR 1525 NR CLAYTON

**Station #:** J4510500

**Hydrologic Unit Code:** 03020201

**Latitude:** 35.59996

**Longitude:** -78.53560

**Stream class:** C NSW

**Agency:** LNBA

**NC stream index:** 27-43-(8)

**Time period:** 08/06/2014 to 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	7	0	<4	0	0		6.6	6.6	6.7	7	10.3	10.5
	7	0	<5	0	0		6.6	6.6	6.7	7	10.3	10.5
pH (SU)	7	0	<6	0	0		6.8	6.8	6.9	6.9	7.1	7.2
	7	0	>9	0	0		6.8	6.8	6.9	6.9	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	7	0	N/A				57	57	79	82	167	171
Water Temperature (°C)	7	0	>32	0	0		7.8	7.8	9.3	18.8	24.4	24.5
<b>Other</b>												
TSS (mg/L)	5	2	N/A				2.8	2.8	2.8	9.4	21.5	31
Turbidity (NTU)	5	0	>50	0	0		6.4	6.4	6.6	13	25.5	26
<b>Nutrients (mg/L)</b>												
NH3 as N	5	1	N/A				0.02	0.02	0.02	0.07	0.08	0.09
NO2 + NO3 as N	5	0	N/A				0.08	0.08	0.12	0.17	0.22	0.25
TKN as N	5	0	N/A				0.29	0.29	0.48	0.83	1.51	1.91
Total Phosphorus	5	0	N/A				0.05	0.05	0.06	0.08	0.09	0.09
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
5	179.3	2	40									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	1	1.8		3.2	5.9	6.5	7.1	9.2	10.5	11.5
pH (SU)	56	0	<5	3	5.4		3.2	5.9	6.5	7.1	9.2	10.5	11.5
	56	0	<6	0	0		6.8	6.8	6.8	6.9	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	56	0	>9	0	0		6.8	6.8	6.8	6.9	7	7.1	7.3
	56	0	N/A				51	67	115	146	170	184	206
Water Temperature (°C)	56	0	>32	0	0		2.2	8.2	10.2	20.3	24.4	25.6	29.3
<b>Other</b>													
TSS (mg/L)	40	0	N/A				4.4	5.6	7.3	8	11.8	14.9	22
Turbidity (NTU)	40	0	>50	2	5		7.5	8.6	9.3	11	18.8	31	85
<b>Nutrients (mg/L)</b>													
NH3 as N	40	3	N/A				0.02	0.02	0.04	0.07	0.09	0.11	0.28
NO2 + NO3 as N	40	10	N/A				0.02	0.02	0.02	0.04	0.1	0.28	0.35
TKN as N	40	0	N/A				0.31	0.58	0.68	0.83	1.06	1.24	1.63
Total Phosphorus	40	1	N/A				0.02	0.04	0.05	0.07	0.09	0.13	0.15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
40	56.1	3	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:** 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 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.1	6.5	6.7	7.3	9.3	10.3	12.1
pH (SU)	56	0	<5	0	0		6.1	6.5	6.7	7.3	9.3	10.3	12.1
	56	0	<6	0	0		6.6	6.8	6.9	7	7.1	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	56	0	>9	0	0		6.6	6.8	6.9	7	7.1	7.1	7.4
Water Temperature (°C)	56	0	N/A				58	82	102	135	164	173	231
	56	0	>32	0	0		1.9	7.7	10.2	19.7	24	25.3	26.5
<b>Other</b>													
TSS (mg/L)	40	15	N/A				2.7	2.9	3.1	6	17.8	36.5	106
Turbidity (NTU)	40	0	>50	2	5		1.7	3.9	6	8.7	20	44.5	150
<b>Nutrients (mg/L)</b>													
NH3 as N	40	3	N/A				0.02	0.03	0.04	0.05	0.07	0.1	0.24
NO2 + NO3 as N	40	1	N/A				0.02	0.04	0.08	0.17	0.25	0.33	0.4
TKN as N	40	0	N/A				0.29	0.35	0.44	0.6	0.84	1.06	1.77
Total Phosphorus	40	2	N/A				0.02	0.03	0.04	0.06	0.09	0.12	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
40	134.9	6	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 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 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	0	0		6	6.7	6.9	7.3	9.1	10.6	13.1
pH (SU)	48	0	<5	0	0		6	6.7	6.9	7.3	9.1	10.6	13.1
	48	0	<6	0	0		6.4	6.7	6.9	7	7.1	7.2	8.1
	48	0	>9	0	0		6.4	6.7	6.9	7	7.1	7.2	8.1
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				65	82	93	114	134	146	170
Water Temperature (°C)	48	0	>32	0	0		1.7	7	13.2	20.2	23.2	25.6	27.4
<b>Other</b>													
TSS (mg/L)	33	10	N/A				2.8	2.8	3.1	4.6	9	47	88
Turbidity (NTU)	33	0	>50	2	6.1		3.2	4.8	6.1	8.3	12.5	24.8	65
<b>Nutrients (mg/L)</b>													
NH3 as N	33	2	N/A				0.02	0.02	0.04	0.06	0.07	0.1	0.16
NO2 + NO3 as N	33	0	N/A				0.02	0.07	0.14	0.24	0.32	0.43	0.48
TKN as N	33	0	N/A				0.21	0.38	0.48	0.64	0.96	1.35	1.66
Total Phosphorus	33	4	N/A				0.02	0.02	0.04	0.05	0.08	0.09	0.11
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
32	124.5	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:** 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:** 01/20/2010 to 03/05/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	37	0	<4	0	0		6	6.2	6.8	7.5	9.6	10.3	11
pH (SU)	37	0	<5	0	0		6	6.2	6.8	7.5	9.6	10.3	11
	37	0	<6	0	0		6.1	6.6	6.7	7	7.1	7.2	7.4
	37	0	>9	0	0		6.1	6.6	6.7	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	37	0	N/A				64	76	92	152	180	197	208
Water Temperature (°C)	37	0	>32	0	0		3.9	6.6	9.4	21.1	26.8	28.6	29.6
<b>Other</b>													
TSS (mg/L)	27	4	N/A				2.9	3.1	4.4	6.7	10	28	49
Turbidity (NTU)	27	0	>50	0	0		3.7	5.2	7	10	12	19.8	40
<b>Nutrients (mg/L)</b>													
NH3 as N	27	1	N/A				0.02	0.03	0.04	0.08	0.15	0.22	0.32
NO2 + NO3 as N	27	2	N/A				0.02	0.05	0.17	0.2	0.29	0.35	0.57
TKN as N	27	0	N/A				0.22	0.38	0.5	0.82	1.18	1.42	8.09
Total Phosphorus	24	0	N/A				0.05	0.05	0.07	0.09	0.16	0.18	0.49
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
27	98.7	3	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:** 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:** 01/20/2010 to 07/24/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	67	0	<4	0	0		5	6	6.4	7.2	9.1	10.1	12.3
pH (SU)	67	0	<5	0	0		5	6	6.4	7.2	9.1	10.1	12.3
	67	0	<6	0	0		6.3	6.5	6.7	6.8	7	7.2	7.7
	67	0	>9	0	0		6.3	6.5	6.7	6.8	7	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	67	0	N/A				52	80	119	153	177	233	384
Water Temperature (°C)	67	0	>32	0	0		3	6.1	9.8	20.4	24.3	26.1	28.3
<b>Other</b>													
TSS (mg/L)	33	5	N/A				2.9	3	3.6	6.9	9.8	35.4	109
Turbidity (NTU)	33	0	>50	3	9.1		5.6	6	7	11	23	54.2	350
<b>Nutrients (mg/L)</b>													
NH3 as N	33	0	N/A				0.02	0.03	0.04	0.08	0.12	0.37	0.4
NO2 + NO3 as N	33	2	N/A				0.02	0.06	0.21	0.41	0.79	1.46	2.7
TKN as N	33	0	N/A				0.3	0.35	0.43	0.61	1.03	1.5	2.57
Total Phosphorus	30	2	N/A				0.02	0.03	0.04	0.08	0.21	0.6	0.94
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	243.2	15	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:** 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:** 01/20/2010 to 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.7	6.1	6.5	7.2	9	10.2	11.7
pH (SU)	85	0	<5	0	0		5.7	6.1	6.5	7.2	9	10.2	11.7
	85	0	<6	0	0		6.4	6.7	6.8	6.9	7.2	7.3	8
	85	0	>9	0	0		6.4	6.7	6.8	6.9	7.2	7.3	8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				89	129	194	263	315	401	598
Water Temperature (°C)	85	0	>32	0	0		3.5	7.2	10.7	20.4	24.6	25.8	28.2
<b>Other</b>													
TSS (mg/L)	60	16	N/A				2.1	2.9	3	3.8	8	19.6	83
Turbidity (NTU)	60	0	>50	5	8.3		2.3	4.4	5.3	7.8	17	44.4	200
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.01	0.02	0.06	0.07	0.1	0.22	0.76
NO2 + NO3 as N	60	0	N/A				0.2	0.59	1.17	1.7	2.3	2.96	4.62
TKN as N	60	0	N/A				0.57	0.68	0.8	0.98	1.2	1.44	1.74
Total Phosphorus	57	0	N/A				0.05	0.08	0.14	0.23	0.5	1.08	2.37
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	207.9	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:** 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:** 01/20/2010 to 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.2	6.4	6.7	7.2	9.4	10.4	11.5
pH (SU)	85	0	<5	0	0		5.2	6.4	6.7	7.2	9.4	10.4	11.5
	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				79	114	130	154	205	335	480
Water Temperature (°C)	85	0	>32	0	0		3.2	7.5	11.4	21.5	25	26.5	28.6
<b>Other</b>													
TSS (mg/L)	60	5	N/A				1	2.9	5.7	8	15.5	34.9	116
Turbidity (NTU)	60	0	>50	2	3.3		3.8	5.9	7.3	9.6	26.2	38.9	220
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.01	0.04	0.06	0.08	0.14	0.23	2.78
NO2 + NO3 as N	60	0	N/A				0.17	0.31	0.47	0.64	0.83	1.06	2.62
TKN as N	60	0	N/A				0.48	0.58	0.77	0.94	1.12	1.35	4.07
Total Phosphorus	57	0	N/A				0.05	0.09	0.1	0.18	0.48	0.93	2.67
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	153.7	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:** 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:** 01/20/2010 to 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.4	6.5	6.8	7.3	9.4	10.3	12
pH (SU)	85	0	<5	0	0		5.4	6.5	6.8	7.3	9.4	10.3	12
	85	0	<6	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	>9	0	0		6.5	6.8	6.9	7.1	7.2	7.3	8.2
Water Temperature (°C)	85	0	N/A				83	118	128	168	212	298	465
	85	0	>32	0	0		1.2	7	10.4	20.2	24.6	25.9	28.4
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2.9	3.8	6.6	11	26.5	38	109
Turbidity (NTU)	60	0	>50	4	6.7		3.3	5	8.8	13.5	24.8	39.9	100
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.01	0.05	0.07	0.08	0.17	0.37	0.83
NO2 + NO3 as N	60	0	N/A				0.14	0.32	0.41	0.62	0.79	1.24	2.64
TKN as N	60	0	N/A				0.4	0.6	0.78	0.92	1.1	1.45	6.69
Total Phosphorus	57	0	N/A				0.04	0.07	0.12	0.17	0.34	0.6	1.39
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	161	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:** 01/07/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		4.9	5.9	6.6	8.9	11.3	12.2	13.2
pH (SU)	33	0	<5	1	3		4.9	5.9	6.6	8.9	11.3	12.2	13.2
	33	0	<6	0	0		6.4	6.8	7	7.2	7.3	7.5	7.6
Salinity (ppt)	33	0	>9	0	0		6.4	6.8	7	7.2	7.3	7.5	7.6
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				74	115	142	188	214	263	409
Water Temperature (°C)	33	0	>32	0	0		2	6.3	9.6	14.8	22.4	26.1	26.8
<b>Other</b>													
Hardness (mg/L)	21	0	N/A				23	26	29	33	36	44	50
TSS (mg/L)	21	9	N/A				6.2	6.2	6.2	8.5	17	21.6	29
Turbidity (NTU)	33	0	>50	0	0		3.3	5.4	7.6	11	20	25.6	40
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	112.9	3	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:** 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 12/30/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.3	6.5	6.8	7.6	9.5	10.2	11.8
pH (SU)	56	0	<5	0	0		6.3	6.5	6.8	7.6	9.5	10.2	11.8
	56	0	<6	0	0		6.7	6.8	6.9	7	7.1	7.2	7.5
	56	0	>9	0	0		6.7	6.8	6.9	7	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				74	116	147	168	202	243	316
Water Temperature (°C)	56	0	>32	0	0		2.3	7.5	10.6	19.9	24.5	25.1	26.5
<b>Other</b>													
TSS (mg/L)	40	1	N/A				2.9	3.1	6.8	14.5	28.8	41.4	92
Turbidity (NTU)	40	0	>50	3	7.5		4.2	7.5	10.2	18	33.8	49	100
<b>Nutrients (mg/L)</b>													
NH3 as N	40	0	N/A				0.03	0.04	0.04	0.07	0.11	0.24	0.6
NO2 + NO3 as N	40	0	N/A				0.18	0.23	0.38	0.56	0.62	0.74	1.58
TKN as N	40	0	N/A				0.41	0.56	0.72	0.88	1.06	1.22	2.33
Total Phosphorus	40	0	N/A				0.06	0.07	0.1	0.14	0.2	0.26	0.47
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
40	141.3	11	27.5	83.9									

**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 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:** 01/20/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.1	6.5	6.8	7.5	9.4	10.7	13.3
pH (SU)	85	0	<5	0	0		6.1	6.5	6.8	7.5	9.4	10.7	13.3
	85	0	<6	0	0		6.6	6.8	6.8	7	7.1	7.3	8.1
	85	0	>9	0	0		6.6	6.8	6.8	7	7.1	7.3	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				101	123	132	149	172	223	328
Water Temperature (°C)	85	0	>32	0	0		2	6.9	10.5	20.5	24.8	27	28.7
<b>Other</b>													
TSS (mg/L)	60	12	N/A				2.9	2.9	3.2	6.2	11	23	84
Turbidity (NTU)	60	0	>50	2	3.3		3.4	5.6	7.6	11	17	33.7	85
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.01	0.03	0.04	0.06	0.09	0.11	0.54
NO2 + NO3 as N	60	0	N/A				0.1	0.22	0.32	0.42	0.56	0.68	0.89
TKN as N	60	0	N/A				0.29	0.45	0.6	0.74	0.98	1.24	2.89
Total Phosphorus	57	1	N/A				0.02	0.05	0.08	0.12	0.18	0.24	0.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	112.4	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:** 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:** 01/20/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	3	3.6		2.7	4.8	5.7	6.3	7.9	9.6	11.2
pH (SU)	84	0	<5	10	11.9	66.9	2.7	4.8	5.7	6.3	7.9	9.6	11.2
	84	0	<6	2	2.4		5.3	6.2	6.5	6.7	6.8	7	7.3
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		5.3	6.2	6.5	6.7	6.8	7	7.3
Water Temperature (°C)	83	0	N/A				62	75	91	98	159	201	253
	84	0	>32	0	0		1.6	6.6	10.3	19.9	24.2	26.4	31.1
<b>Other</b>													
TSS (mg/L)	59	14	N/A				1	2.8	3	4.7	8	12	64
Turbidity (NTU)	59	0	>50	0	0		2.9	4.8	6.6	9.2	11	15	36
<b>Nutrients (mg/L)</b>													
NH3 as N	59	4	N/A				0.01	0.03	0.05	0.07	0.11	0.25	0.42
NO2 + NO3 as N	59	13	N/A				0.01	0.02	0.02	0.06	0.12	0.19	0.42
TKN as N	59	0	N/A				0.29	0.57	0.81	1.13	1.38	1.66	2.46
Total Phosphorus	56	2	N/A				0.02	0.03	0.04	0.07	0.1	0.11	0.15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	77.5	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:** 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:** 01/28/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.4	6.6	7.2	9.5	10.5	11.9
pH (SU)	85	0	<5	0	0		5.9	6.4	6.6	7.2	9.5	10.5	11.9
	85	0	<6	0	0		6.3	6.8	6.9	7.1	7.1	7.3	7.6
	85	0	>9	0	0		6.3	6.8	6.9	7.1	7.1	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				66	112	132	154	182	242	312
Water Temperature (°C)	85	0	>32	1	1.2		2.1	7.8	12.1	22.1	25.9	28.2	33.1
<b>Other</b>													
TSS (mg/L)	60	3	N/A				2.9	5.9	13.2	26	42	149.4	625
Turbidity (NTU)	60	0	>50	10	16.7	92.7	3.1	11.1	14.2	22.5	39.2	78	380
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.01	0.03	0.05	0.07	0.1	0.14	0.22
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.19	0.32	0.42	0.54	0.65	0.82
TKN as N	60	1	N/A				0.2	0.51	0.6	0.8	0.97	1.19	1.82
Total Phosphorus	57	0	N/A				0.04	0.09	0.11	0.17	0.23	0.32	0.97
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	111.2	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:** 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:** 01/20/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	14	16.5	95.7	1.4	3.3	4.8	6.1	7.7	9.2	11
pH (SU)	85	0	<5	23	27.1	> 99.9	1.4	3.3	4.8	6.1	7.7	9.2	11
	85	0	<6	15	17.6	97.9	5.3	5.8	6.2	6.5	6.6	6.7	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.3	5.8	6.2	6.5	6.6	6.7	7.6
Water Temperature (°C)	85	0	N/A				65	90	106	116	150	205	240
			>32	0	0		1.4	6.6	10.2	19.5	23.5	25.4	28.4
<b>Other</b>													
TSS (mg/L)	60	16	N/A				1	2.9	3.2	4	6	10.8	27
Turbidity (NTU)	60	0	>50	0	0		2.2	4.2	5.7	7.9	12	17	40
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.01	0.04	0.06	0.09	0.14	0.25	0.48
NO2 + NO3 as N	60	2	N/A				0.02	0.02	0.08	0.26	0.6	0.92	1.84
TKN as N	60	0	N/A				0.23	0.35	0.51	0.72	0.9	1.14	1.39
Total Phosphorus	57	13	N/A				0.02	0.02	0.02	0.05	0.07	0.09	0.29
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	94.8	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:** 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:** 01/20/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	22	25.9	> 99.9	0.5	1.3	3.4	5.6	7	8.8	10.6
pH (SU)	85	0	<5	28	32.9	> 99.9	0.5	1.3	3.4	5.6	7	8.8	10.6
	85	0	<6	4	4.7		5.4	6.1	6.3	6.4	6.6	6.7	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.4	6.1	6.3	6.4	6.6	6.7	7.5
Water Temperature (°C)	85	0	N/A				79	126	157	173	226	316	391
	85	0	>32	0	0		1.2	6.5	10.2	19.7	23.6	25.5	28
<b>Other</b>													
TSS (mg/L)	60	18	N/A				1.4	2.9	2.9	4.7	9.6	15	32
Turbidity (NTU)	60	0	>50	0	0		1.7	2.7	5	8.3	14	19.8	31
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.01	0.04	0.06	0.1	0.38	0.9	2.31
NO2 + NO3 as N	60	19	N/A				0.01	0.01	0.02	0.08	0.52	1.16	2.22
TKN as N	60	0	N/A				0.34	0.44	0.77	1	1.75	2.15	3.21
Total Phosphorus	57	0	N/A				0.05	0.08	0.14	0.2	0.47	1.03	1.6
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	67.6	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:** 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:** 01/28/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	10	11.9	66.9	1.8	3.6	5.3	6.3	7.6	9.5	10.9
pH (SU)	84	0	<5	18	21.4	99.9	1.8	3.6	5.3	6.3	7.6	9.5	10.9
	84	0	<6	3	3.6		5.7	6.3	6.4	6.6	6.7	6.8	7.1
	84	0	>9	0	0		5.7	6.3	6.4	6.6	6.7	6.8	7.1
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				64	90	95	108	138	154	194
Water Temperature (°C)	84	0	>32	0	0		1.5	6.7	11.4	20.4	23.9	26.2	30.7
<b>Other</b>													
TSS (mg/L)	59	31	N/A				1.3	2.8	2.9	3.1	4.4	7.9	8.9
Turbidity (NTU)	59	0	>50	0	0		1.3	2.6	3.3	5.2	8	9.1	16
<b>Nutrients (mg/L)</b>													
NH3 as N	59	3	N/A				0.01	0.02	0.05	0.07	0.1	0.15	0.94
NO2 + NO3 as N	59	0	N/A				0.03	0.06	0.1	0.15	0.26	0.43	0.78
TKN as N	59	0	N/A				0.22	0.45	0.64	0.86	1.06	1.48	3.4
Total Phosphorus	56	6	N/A				0.02	0.02	0.03	0.05	0.07	0.08	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	108.4	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:** 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:** 01/28/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	15	17.6	97.9	0.8	3	5.2	6.3	7.4	9.6	10.6
pH (SU)	85	0	<5	21	24.7	> 99.9	0.8	3	5.2	6.3	7.4	9.6	10.6
	85	0	<6	3	3.5		5.5	6.3	6.5	6.6	6.7	6.8	7
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.5	6.3	6.5	6.6	6.7	6.8	7
	85	0	N/A				77	104	116	128	152	170	202
Water Temperature (°C)	85	0	>32	0	0		1.4	7	11.6	20.4	24	25.6	28.8
<b>Other</b>													
TSS (mg/L)	60	35	N/A				1	2.8	2.9	3.1	4.2	5.8	58
Turbidity (NTU)	60	0	>50	0	0		1.7	2	3.4	5.2	7.5	9.9	19
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.01	0.03	0.04	0.06	0.09	0.21	0.47
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.07	0.18	0.37	0.66	1.28	2.22
TKN as N	60	0	N/A				0.33	0.54	0.7	0.88	1.13	1.53	2.94
Total Phosphorus	57	6	N/A				0.02	0.02	0.05	0.1	0.12	0.14	0.29
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	112.7	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 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	53	62.4	> 99.9	0.5	1.3	2.4	3.1	6.1	8.3	10.2
pH (SU)	85	0	<5	57	67.1	> 99.9	0.5	1.3	2.4	3.1	6.1	8.3	10.2
	85	0	<6	17	20	99.6	5.3	5.9	6.1	6.3	6.5	6.6	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.3	5.9	6.1	6.3	6.5	6.6	7.2
Water Temperature (°C)	85	1	N/A				50	59	62	71	86	99	163
	85	0	>32	0	0		1.2	5.9	10.9	19.3	24.2	26	30.9
<b>Other</b>													
TSS (mg/L)	60	19	N/A				2	2.9	3.4	4.8	8.5	16.8	29
Turbidity (NTU)	60	0	>50	0	0		1.4	3.6	5.3	7	11	19.8	50
<b>Nutrients (mg/L)</b>													
NH3 as N	60	10	N/A				0.01	0.02	0.03	0.05	0.07	0.14	0.33
NO2 + NO3 as N	60	25	>10	0	0		0.01	0.01	0.02	0.02	0.07	0.2	2.58
TKN as N	60	0	N/A				0.31	0.4	0.52	0.72	0.95	1.21	1.91
Total Phosphorus	56	3	N/A				0.02	0.03	0.05	0.07	0.11	0.16	0.78

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	86.4	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:** LITTLE RIV AT WEAVER RD NR BAGLEY

**Station #:** J5685000

**Hydrologic Unit Code:** 03020201

**Latitude:** 35.57910

**Longitude:** -78.17230

**Stream class:** WS-V NSW

**Agency:** LNBA

**NC stream index:** 27-57-(8.5)

**Time period:** 08/11/2014 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	7	0	<4	0	0		6.1	6.1	6.6	6.9	10.1	10.1	10.1
pH (SU)	7	0	<5	0	0		6.1	6.1	6.6	6.9	10.1	10.1	10.1
	7	0	<6	0	0		6.7	6.7	6.7	6.9	6.9	7.3	7.3
	7	0	>9	0	0		6.7	6.7	6.7	6.9	6.9	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	7	0	N/A				65	65	78	89	93	116	116
Water Temperature (°C)	7	0	>32	0	0		9.5	9.5	11.7	21.5	24.9	26.6	26.6
<b>Other</b>													
TSS (mg/L)	5	2	N/A				2.8	2.8	2.8	4.3	14.6	22	22
Turbidity (NTU)	5	0	>50	0	0		4.1	4.1	5.5	7.8	19.5	28	28
<b>Nutrients (mg/L)</b>													
NH3 as N	5	0	N/A				0.04	0.04	0.06	0.08	0.1	0.1	0.1
NO2 + NO3 as N	5	0	>10	0	0		0.16	0.16	0.19	0.23	0.34	0.34	0.34
TKN as N	5	1	N/A				0.2	0.2	0.52	0.91	1.06	1.12	1.12
Total Phosphorus	5	0	N/A				0.02	0.02	0.05	0.08	0.31	0.52	0.52
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
5	104.8	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:** 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:** 01/28/2010 to 07/23/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	77	0	<4	1	1.3		3	5.9	6.5	7.2	9.6	10.6	11.2
	77	0	<5	2	2.6		3	5.9	6.5	7.2	9.6	10.6	11.2
pH (SU)	77	0	<6	0	0		6.2	6.6	6.8	6.9	7.1	7.2	7.8
	77	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)	76	0	N/A				54	74	92	124	154	178	203
Water Temperature (°C)	77	0	>32	0	0		1.9	7.5	11.9	21.6	25.3	27.1	30.9
<b>Other</b>													
TSS (mg/L)	55	13	N/A				2.7	2.9	3.1	5.2	8.6	14	45
Turbidity (NTU)	55	0	>50	0	0		3.2	5	6	9.7	13	17.4	45
<b>Nutrients (mg/L)</b>													
NH3 as N	55	4	N/A				0.01	0.02	0.03	0.06	0.09	0.13	0.2
NO2 + NO3 as N	55	3	>10	0	0		0.02	0.04	0.09	0.18	0.26	0.33	0.5
TKN as N	55	0	N/A				0.24	0.45	0.59	0.72	0.88	1.29	1.74
Total Phosphorus	52	2	N/A				0.02	0.04	0.05	0.08	0.1	0.13	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	79.7	3	5.5										

**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 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:** 01/28/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	0	0		4.8	6	6.6	7.4	9.6	10.8	11.7
pH (SU)	84	0	<5	1	1.2		4.8	6	6.6	7.4	9.6	10.8	11.7
	84	0	<6	0	0		6.2	6.6	6.9	7.1	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		6.2	6.6	6.9	7.1	7.2	7.2	7.4
	84	0	N/A				54	76	90	108	122	153	232
Water Temperature (°C)	84	0	>32	0	0		2	7.2	11.8	21.4	24.8	26.6	31.9
<b>Other</b>													
TSS (mg/L)	60	15	N/A				2.3	2.9	2.9	4.5	9.5	18.7	37
Turbidity (NTU)	60	0	>50	0	0		3.2	4.5	6	8.9	12.8	21.9	45
<b>Nutrients (mg/L)</b>													
NH3 as N	60	8	N/A				0.01	0.02	0.04	0.06	0.09	0.14	0.51
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.07	0.15	0.24	0.31	0.41	0.54
TKN as N	60	1	N/A				0.2	0.43	0.58	0.76	0.96	1.28	2.9
Total Phosphorus	57	2	N/A				0.02	0.04	0.05	0.07	0.1	0.13	0.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	118	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:** 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 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	2	3.6		3.2	5.6	6.4	7.1	8.2	10.1	11.7
pH (SU)	56	0	<5	4	7.1		3.2	5.6	6.4	7.1	8.2	10.1	11.7
	56	0	<6	1	1.8		5.7	6.4	6.6	6.8	6.9	7	7.2
Spec. conductance (umhos/cm at 25°C)	56	0	>9	0	0		5.7	6.4	6.6	6.8	6.9	7	7.2
	56	0	N/A				52	65	76	86	97	197	226
Water Temperature (°C)	56	0	>32	0	0		1.9	7.8	10.5	19.2	23.7	25.7	28.5
<b>Other</b>													
TSS (mg/L)	40	6	N/A				2.8	2.9	4.1	5	9.1	13.9	85
Turbidity (NTU)	40	0	>50	0	0		4.1	5.6	6.8	8.6	11	14	27
<b>Nutrients (mg/L)</b>													
NH3 as N	40	0	N/A				0.03	0.03	0.04	0.06	0.09	0.13	0.19
NO2 + NO3 as N	40	4	N/A				0.02	0.02	0.05	0.08	0.15	0.23	0.42
TKN as N	40	0	N/A				0.36	0.45	0.58	0.76	0.88	1.1	1.44
Total Phosphorus	40	3	N/A				0.02	0.03	0.05	0.06	0.09	0.18	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
40	176.3	10	25	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:** 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:** 01/07/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		5.2	5.8	7	8.9	11.1	12.6	13.9
pH (SU)	33	0	<5	0	0		5.2	5.8	7	8.9	11.1	12.6	13.9
	33	0	<6	0	0		6.2	6.3	6.6	6.8	7.2	7.4	7.8
	33	0	>9	0	0		6.2	6.3	6.6	6.8	7.2	7.4	7.8
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				59	64	73	79	84	95	129
Water Temperature (°C)	33	0	>32	0	0		1.4	5.8	9	15.7	23.3	27.6	30.4
<b>Other</b>													
Hardness (mg/L)	21	0	>100	0	0		8	16	18	22	23	25	26
TSS (mg/L)	21	17	N/A				6.2	6.2	6.2	6.2	7.7	14.2	50
Turbidity (NTU)	33	0	>50	0	0		2.1	2.7	3.2	6.1	11.5	16	19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	95.3	4	12.1										

**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 1234 CAPP'S 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:** 01/28/2010 to 07/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	78	0	<4	0	0		4	5.8	6.4	7.2	9.2	10.4	13.2
	78	0	<5	5	6.4		4	5.8	6.4	7.2	9.2	10.4	13.2
pH (SU)	78	0	<6	1	1.3		5.9	6.6	6.7	6.8	7	7.3	8.3
	78	0	>9	0	0		5.9	6.6	6.7	6.8	7	7.3	8.3
Spec. conductance (umhos/cm at 25°C)	78	0	N/A				62	84	91	102	125	166	243
Water Temperature (°C)	78	0	>32	1	1.3		1.7	6.8	11.1	21.2	24.4	27.6	32.1
<b>Other</b>													
TSS (mg/L)	55	5	N/A				2.5	2.9	4.3	6.1	9.6	18	82
Turbidity (NTU)	55	0	>50	1	1.8		3.6	5.2	6.7	9.8	13	25	85
<b>Nutrients (mg/L)</b>													
NH3 as N	55	3	N/A				0.01	0.03	0.04	0.06	0.09	0.13	0.19
NO2 + NO3 as N	55	0	>10	0	0		0.09	0.17	0.28	0.39	0.52	0.64	0.87
TKN as N	55	1	N/A				0.2	0.51	0.58	0.76	1.04	1.32	1.83
Total Phosphorus	52	1	N/A				0.02	0.04	0.06	0.08	0.09	0.12	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	109.4	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 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:** 01/28/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.2	6.1	6.4	7	9	10.2	12.5
pH (SU)	85	0	<5	0	0		5.2	6.1	6.4	7	9	10.2	12.5
	85	0	<6	1	1.2		5.5	6.6	6.7	6.8	6.9	7.1	7.3
	85	0	>9	0	0		5.5	6.6	6.7	6.8	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				62	93	119	134	164	185	214
Water Temperature (°C)	85	0	>32	0	0		2.2	7.7	12.4	22	25.8	27.1	31.1
<b>Other</b>													
TSS (mg/L)	60	13	N/A				1.4	2.9	3.1	4.9	8.4	11.9	43
Turbidity (NTU)	60	0	>50	1	1.7		3.1	4.3	5.9	8.6	11	18.9	60
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.01	0.03	0.04	0.07	0.09	0.13	0.21
NO2 + NO3 as N	60	0	N/A				0.11	0.21	0.34	0.43	0.55	0.75	0.91
TKN as N	60	1	N/A				0.2	0.47	0.64	0.72	0.99	1.38	2.49
Total Phosphorus	57	1	N/A				0.02	0.04	0.05	0.07	0.09	0.13	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	118.5	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:** 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:** 01/07/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		4.4	5.4	6.4	7.9	10.9	12.1	13.6
pH (SU)	33	0	<5	1	3		4.4	5.4	6.4	7.9	10.9	12.1	13.6
	33	0	<6	0	0		6.2	6.4	6.7	6.9	7.2	7.5	7.6
Salinity (ppt)	33	0	>9	0	0		6.2	6.4	6.7	6.9	7.2	7.5	7.6
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				65	90	108	134	186	239	269
Water Temperature (°C)	33	0	>32	0	0		3	6.9	10	17.3	24.8	28.4	31.2
<b>Other</b>													
Chlorophyll a (ug/L)	31	7	>40	0	0		1	1	1	3	5	15	18
Hardness (mg/L)	20	0	N/A				19	25	28	32	34	39	39
TSS (mg/L)	20	2	N/A				6.2	6.4	8.8	13.5	21.5	38.3	46
Turbidity (NTU)	32	0	>50	2	6.2		3.9	5.3	11	14.5	20.8	33.5	120
<b>Nutrients (mg/L)</b>													
NH3 as N	32	7	N/A				0.02	0.02	0.02	0.04	0.05	0.07	0.13
NO2 + NO3 as N	32	0	N/A				0.22	0.28	0.42	0.48	0.54	0.62	0.68
TKN as N	32	0	N/A				0.33	0.45	0.5	0.59	0.68	0.81	0.97
Total Phosphorus	32	0	N/A				0.07	0.08	0.11	0.14	0.17	0.21	0.33

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
32	91.5	5	15.6	

**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:** 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:** 01/28/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.8	5.4	6.2	6.8	8.2	10.1	11.1
pH (SU)	85	0	<5	1	1.2		4.8	5.4	6.2	6.8	8.2	10.1	11.1
	85	0	<6	3	3.5		5.4	6.4	6.6	6.8	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.4	6.4	6.6	6.8	6.9	7.1	7.3
Water Temperature (°C)	85	0	N/A				79	88	94	121	134	151	178
	85	0	>32	0	0		2.1	8.1	12.2	21.7	25	26.2	29.4
<b>Other</b>													
TSS (mg/L)	60	34	N/A				1.1	1.8	2.9	2.9	3.5	6.9	23
Turbidity (NTU)	60	4	>50	0	0		1	1.3	2.2	3.1	4.6	6.5	17
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.03	0.06	0.08	0.12	0.15	0.19
NO2 + NO3 as N	60	0	N/A				0.13	0.37	0.52	0.82	1.16	1.81	2.88
TKN as N	60	3	N/A				0.2	0.26	0.36	0.59	0.79	0.91	1.91
Total Phosphorus	57	13	N/A				0.02	0.02	0.02	0.04	0.06	0.09	0.21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	45.1	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 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:** 01/28/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.5	6.2	6.7	7.3	9	10.2	11.4
pH (SU)	85	0	<5	0	0		5.5	6.2	6.7	7.3	9	10.2	11.4
	85	0	<6	1	1.2		5.8	6.8	6.9	7.1	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.8	6.8	6.9	7.1	7.2	7.3	7.6
Water Temperature (°C)	85	0	N/A				82	113	124	139	158	193	283
	85	0	>32	1	1.2		2.9	8.8	13	23	26.5	29.3	32.8
<b>Other</b>													
TSS (mg/L)	60	4	N/A				1.7	3.3	6.4	13	24.8	33.8	80
Turbidity (NTU)	60	0	>50	5	8.3		2	4.6	8	15.5	23.5	38	85
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.03	0.05	0.08	0.1	0.16	0.33
NO2 + NO3 as N	60	0	N/A				0.12	0.32	0.39	0.5	0.61	0.74	1.19
TKN as N	60	0	N/A				0.3	0.45	0.52	0.7	0.85	1.01	1.75
Total Phosphorus	57	1	N/A				0.02	0.06	0.09	0.12	0.16	0.18	0.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	66.9	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:** BEAR CRK AT SR 1603 WASHINGTON ST NR LA GRANGE

**Station #:** J6044400

**Hydrologic Unit Code:** 03020202

**Latitude:** 35.31370

**Longitude:** -77.81530

**Stream class:** C Sw NSW

**Agency:** LNBA

**NC stream index:** 27-72-(0.1)

**Time period:** 08/12/2014 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	7	0	N/A				6.5	6.5	6.8	7.1	8.8	9.4	9.4
pH (SU)	7	0	<4.3	0	0		6.8	6.8	6.9	6.9	7	7.3	7.3
	7	0	>9	0	0		6.8	6.8	6.9	6.9	7	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	7	0	N/A				102	102	112	116	141	147	147
Water Temperature (°C)	7	0	>32	0	0		9.1	9.1	12.5	20.1	23.4	24.3	24.3
<b>Other</b>													
TSS (mg/L)	5	0	N/A				3.9	3.9	5.8	9.4	11.5	13	13
Turbidity (NTU)	5	0	>50	0	0		8.4	8.4	9	11	12	13	13
<b>Nutrients (mg/L)</b>													
NH3 as N	5	0	N/A				0.09	0.09	0.1	0.12	0.56	0.91	0.91
NO2 + NO3 as N	5	0	N/A				3.02	3.02	3.14	3.46	3.68	3.72	3.72
TKN as N	5	0	N/A				0.57	0.57	0.6	0.76	1.32	1.71	1.71
Total Phosphorus	5	0	N/A				0.11	0.11	0.12	0.14	0.23	0.3	0.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
5	120.4	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:** 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:** 01/28/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				4.9	6.5	6.7	7.6	9.2	10.5	11.2
pH (SU)	85	0	<4.3	0	0		5.9	6.6	6.8	6.9	7.1	7.3	7.4
	85	0	>9	0	0		5.9	6.6	6.8	6.9	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				94	100	106	114	124	142	254
Water Temperature (°C)	85	0	>32	0	0		2.4	8	12.1	20.8	24.3	25.3	28.6
<b>Other</b>													
TSS (mg/L)	60	7	N/A				1.8	2.9	3.7	6	9.3	18.9	375
Turbidity (NTU)	60	0	>50	1	1.7		1.3	3.5	5.3	7.5	13	25.6	400
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.03	0.05	0.07	0.1	0.17	0.29	4.49
NO2 + NO3 as N	60	0	>10	0	0		0.51	1.78	2.06	2.34	2.71	3.22	3.7
TKN as N	60	1	N/A				0.2	0.37	0.49	0.7	1.03	1.21	6.48
Total Phosphorus	57	2	N/A				0.02	0.05	0.07	0.1	0.14	0.24	1.67
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	104.8	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:** 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:** 01/28/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	N/A				5	6.2	6.5	7.1	8.3	10.2	10.7
pH (SU)	85	0	<4.3	0	0		6	6.5	6.7	6.8	7	7.1	7.2
	85	0	>9	0	0		6	6.5	6.7	6.8	7	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				89	102	112	125	142	165	217
Water Temperature (°C)	85	0	>32	0	0		2.6	8.1	12.4	20.7	24.4	25.3	28.9
<b>Other</b>													
TSS (mg/L)	60	13	N/A				1.7	2.9	3	4.6	6.8	14.6	59
Turbidity (NTU)	60	0	>50	1	1.7		2.3	3.3	4.5	6.2	8.8	13.8	85
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.03	0.04	0.06	0.08	0.13	0.19	0.54
NO2 + NO3 as N	60	0	N/A				0.27	1.03	1.42	2.22	2.64	3.18	3.67
TKN as N	60	2	N/A				0.2	0.44	0.56	0.74	0.92	1.24	1.82
Total Phosphorus	57	1	N/A				0.02	0.04	0.08	0.11	0.16	0.21	0.35
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	106.2	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 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:** 01/28/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	0	0		5.2	6.3	6.5	7.3	9.3	10.3	11
pH (SU)	84	0	<5	0	0		5.2	6.3	6.5	7.3	9.3	10.3	11
	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				93	115	131	149	162	192	252
Water Temperature (°C)	85	0	>32	1	1.2		3.2	8.9	12.8	23.1	26.6	29.2	33.3
<b>Other</b>													
TSS (mg/L)	60	1	N/A				3.8	5	7	13.5	21.5	33	229
Turbidity (NTU)	60	0	>50	0	0		2.8	7	9.2	14	21	33	50
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.03	0.04	0.07	0.09	0.12	0.47
NO2 + NO3 as N	60	0	N/A				0.04	0.33	0.46	0.57	0.73	0.84	1.34
TKN as N	60	0	N/A				0.27	0.43	0.59	0.73	0.84	1.19	1.48
Total Phosphorus	57	0	N/A				0.05	0.06	0.09	0.11	0.14	0.17	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	55.7	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:** 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:** 01/04/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	247	0	<4	4	1.6		3.1	6.2	6.7	7.9	10.2	11.2	13.3
	247	0	<5	6	2.4		3.1	6.2	6.7	7.9	10.2	11.2	13.3
pH (SU)	249	0	<6	6	2.4		4.9	6.3	6.6	6.8	7	7.3	8.4
	249	0	>9	0	0		4.9	6.3	6.6	6.8	7	7.3	8.4
Salinity (ppt)	249	0	N/A				0.02	0.03	0.05	0.06	0.07	0.09	0.11
Spec. conductance (umhos/cm at 25°C)	249	0	N/A				69	91	114	141	168	195	241
Water Temperature (°C)	249	0	>32	1	0.4		2.7	8.1	11.4	19.3	26	29	32.6
<b>Other</b>													
Chlorophyll a (ug/L)	60	5	>40	1	1.7		1	1	2	3	7	16	45
Hardness (mg/L)	20	0	N/A				20	21	26	32	34	36	40
TSS (mg/L)	19	6	N/A				6.2	6.2	6.2	12	19	30	33
Turbidity (NTU)	60	0	>50	1	1.7		3.8	6.1	8.1	14	20	25.8	80
<b>Nutrients (mg/L)</b>													
NH3 as N	246	76	N/A				0.02	0.02	0.02	0.03	0.04	0.06	0.21
NO2 + NO3 as N	246	1	N/A				0.02	0.33	0.44	0.57	0.69	0.78	1.1
TKN as N	245	0	N/A				0.29	0.43	0.5	0.58	0.66	0.74	1
Total Phosphorus	245	0	N/A				0.05	0.08	0.1	0.13	0.16	0.18	0.4

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	42.9	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:** 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:** 01/07/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	0	0		5.5	6.4	6.6	7.2	9.4	10.6	12.4
pH (SU)	85	0	<6	0	0		6	6.9	6.9	7.1	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6	6.9	6.9	7.1	7.2	7.4	7.8
Water Temperature (°C)	85	0	>32	1	1.2		2.6	7.9	12.5	23	26	28.2	32.4
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2.9	4.1	6.3	14	19	25.9	268
Turbidity (NTU)	60	0	>50	0	0		4	7	9.4	16	22.5	30	46
<b>Nutrients (mg/L)</b>													
NH3 as N	60	5	N/A				0.01	0.02	0.04	0.06	0.1	0.14	0.62
NO2 + NO3 as N	60	0	N/A				0.09	0.28	0.45	0.59	0.7	0.81	1.28
TKN as N	60	0	N/A				0.33	0.49	0.64	0.78	0.95	1.08	1.21
Total Phosphorus	56	1	N/A				0.02	0.07	0.09	0.12	0.14	0.16	0.41
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	57.2	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:** 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	1	1.2		1.2	5	6.3	7.2	8.7	10.2	11.4
	84	0	<5	8	9.5		1.2	5	6.3	7.2	8.7	10.2	11.4
pH (SU)	84	0	<6	1	1.2		5.8	6.3	6.6	6.8	7	7.1	7.2
	84	0	>9	0	0		5.8	6.3	6.6	6.8	7	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				64	83	102	127	159	173	206
Water Temperature (°C)	84	0	>32	0	0		1.8	7.2	11.8	19.5	23.8	25.2	25.9
<b>Other</b>													
TSS (mg/L)	51	10	N/A				2.7	2.8	3.4	5.8	9.3	17.4	52
Turbidity (NTU)	51	0	>50	1	2		4.7	5.6	7.6	10	17	26.2	52
<b>Nutrients (mg/L)</b>													
NH3 as N	51	1	N/A				0.01	0.03	0.04	0.07	0.09	0.12	0.21
NO2 + NO3 as N	51	1	N/A				0.01	0.09	0.25	0.34	0.55	0.76	1.05
TKN as N	51	1	N/A				0.2	0.31	0.49	0.65	0.81	1.19	1.4
Total Phosphorus	50	2	N/A				0.02	0.03	0.06	0.08	0.11	0.15	0.61
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	315	18	35.3	99.2									

**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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.5	5.9	6.4	7	8.6	10.2	11.1
pH (SU)	85	0	<5	2	2.4		4.5	5.9	6.4	7	8.6	10.2	11.1
	85	0	<6	0	0		6.4	6.7	6.8	6.9	7	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.7	6.8	6.9	7	7.2	7.4
	85	0	N/A				108	121	146	190	234	353	499
Water Temperature (°C)	85	0	>32	0	0		1.7	7.7	12.2	19.9	24.6	26.3	28.4
<b>Other</b>													
TSS (mg/L)	60	10	N/A				2.8	2.9	3.5	6	9.6	22	79
Turbidity (NTU)	60	0	>50	3	5		3.4	5.5	7.4	10	17.5	42.5	65
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.01	0.03	0.06	0.08	0.11	0.19	0.72
NO2 + NO3 as N	60	2	N/A				0.01	0.39	0.54	0.74	1	1.45	1.97
TKN as N	60	0	N/A				0.35	0.45	0.63	0.76	0.95	1.3	1.59
Total Phosphorus	56	1	N/A				0.02	0.05	0.08	0.11	0.17	0.24	11.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	156.8	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:** 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	5	5.9		2.7	4.2	6	6.8	8.8	10	11.3
pH (SU)	85	0	<5	12	14.1	85.9	2.7	4.2	6	6.8	8.8	10	11.3
	85	0	<6	0	0		6.4	6.6	6.7	6.9	7	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.6	6.7	6.9	7	7.1	7.4
Water Temperature (°C)	85	0	N/A				72	87	95	112	128	143	217
	85	0	>32	0	0		1.4	6.9	11.4	19.3	24.4	25.5	29.5
<b>Other</b>													
TSS (mg/L)	60	20	N/A				2.8	2.8	2.9	4.2	7.8	17	50
Turbidity (NTU)	60	0	>50	1	1.7		3	4.5	6.1	8.7	13.8	30.7	70
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.01	0.02	0.04	0.05	0.09	0.13	0.22
NO2 + NO3 as N	60	4	N/A				0.01	0.02	0.08	0.14	0.21	0.28	0.33
TKN as N	60	1	N/A				0.2	0.47	0.58	0.76	1.02	1.33	1.8
Total Phosphorus	56	3	N/A				0.02	0.04	0.06	0.08	0.1	0.14	0.63
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	144.5	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:** 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	10	11.8	65.5	1.9	3.5	5.6	6.2	8.2	9.5	10.4
pH (SU)	85	0	<5	15	17.6	97.9	1.9	3.5	5.6	6.2	8.2	9.5	10.4
	85	0	<6	0	0		6.1	6.4	6.6	6.7	6.8	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.1	6.4	6.6	6.7	6.8	6.9	7.3
Water Temperature (°C)	84	0	N/A				53	65	80	106	134	160	240
	85	0	>32	0	0		1.4	6.5	11.4	19.6	24.8	26.5	29.8
<b>Other</b>													
TSS (mg/L)	60	8	N/A				2.8	2.9	3.9	5.2	7.4	13	37
Turbidity (NTU)	60	0	>50	1	1.7		3.6	6.5	7.6	9.7	15.8	29.6	65
<b>Nutrients (mg/L)</b>													
NH3 as N	60	5	N/A				0.02	0.02	0.04	0.07	0.1	0.13	0.39
NO2 + NO3 as N	60	8	N/A				0.01	0.02	0.03	0.08	0.15	0.26	0.39
TKN as N	60	0	N/A				0.38	0.48	0.62	0.82	0.98	1.31	1.49
Total Phosphorus	56	3	N/A				0.02	0.03	0.05	0.07	0.09	0.13	0.66
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	105.1	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:** 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:** 01/07/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	33	0	<4	0	0		4.1	4.6	6.6	8.4	11.9	12.9	14.1
pH (SU)	33	0	<5	4	12.1	57.6	4.1	4.6	6.6	8.4	11.9	12.9	14.1
	33	0	<6	0	0		6.3	6.4	6.7	6.9	7.1	7.5	7.6
Salinity (ppt)	33	0	>9	0	0		6.3	6.4	6.7	6.9	7.1	7.5	7.6
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	33	0	N/A				49	55	58	65	74	81	86
Water Temperature (°C)	33	0	>32	0	0		2.9	7.7	9.2	18.1	24.6	29.2	31.5
<b>Other</b>													
Hardness (mg/L)	21	0	>100	0	0		13	14	16	17	19	20	22
TSS (mg/L)	21	11	N/A				6.2	6.2	6.2	6.5	8.2	12.6	13
Turbidity (NTU)	33	0	>50	0	0		2	2.8	4.6	6.3	9.2	15	22
<b>Nutrients (mg/L)</b>													
NH3 as N	33	10	N/A				0.02	0.02	0.02	0.06	0.09	0.12	0.24
NO2 + NO3 as N	33	9	>10	0	0		0.02	0.02	0.02	0.06	0.13	0.17	0.29
TKN as N	33	0	N/A				0.54	0.57	0.64	0.69	0.76	0.87	0.99
Total Phosphorus	33	0	N/A				0.02	0.02	0.04	0.05	0.05	0.07	0.09
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
33	29.6	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:** 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:** 01/29/2010 to 07/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	77	0	N/A				3.8	6.5	6.8	7.6	9.3	10.5	12
pH (SU)	77	0	<4.3	0	0		6.4	6.8	6.9	7	7.2	7.3	7.6
	77	0	>9	0	0		6.4	6.8	6.9	7	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				60	70	89	112	124	132	150
Water Temperature (°C)	77	0	>32	1	1.3		2.3	8	11.5	21.3	26.8	28.9	32.9
<b>Other</b>													
TSS (mg/L)	54	10	N/A				3.1	3.7	4.4	5.8	7.3	8.6	28
Turbidity (NTU)	54	0	>50	0	0		4.2	4.9	6	7.2	10.2	20	37
<b>Nutrients (mg/L)</b>													
NH3 as N	54	3	N/A				0.02	0.02	0.04	0.05	0.08	0.12	0.2
NO2 + NO3 as N	54	9	N/A				0.01	0.02	0.03	0.1	0.21	0.42	0.61
TKN as N	54	0	N/A				0.41	0.54	0.64	0.84	1.08	1.33	1.48
Total Phosphorus	50	4	N/A				0.02	0.03	0.05	0.06	0.08	0.1	0.83
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	39.9	4	7.4										

**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 WILLOW SPRINGS DR NR DIXIE  
**Station #:** J6765000 **Hydrologic Unit Code:** 03020203  
**Latitude:** 35.68380 **Longitude:** -77.94100 **Stream class:** C Sw NSW  
**Agency:** LNBA **NC stream index:** 27-86-(7)

**Time period:** 08/04/2014 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	7	0	N/A				6.9	6.9	7.1	7.4	8.1	9.7	9.7
pH (SU)	7	0	<4.3	0	0		6.7	6.7	7	7	7.1	7.2	7.2
	7	0	>9	0	0		6.7	6.7	7	7	7.1	7.2	7.2
Spec. conductance (umhos/cm at 25°C)	7	0	N/A				70	70	81	116	152	177	177
Water Temperature (°C)	7	0	>32	0	0		12.2	12.2	15.4	21.1	23.2	23.9	23.9
<b>Other</b>													
TSS (mg/L)	5	1	N/A				2.8	2.8	3.2	4.2	10.8	15	15
Turbidity (NTU)	5	0	>50	0	0		6.4	6.4	6.7	9.4	19	20	20
<b>Nutrients (mg/L)</b>													
NH3 as N	5	1	N/A				0.02	0.02	0.02	0.05	0.08	0.09	0.09
NO2 + NO3 as N	5	0	N/A				0.16	0.16	0.2	0.24	0.32	0.4	0.4
TKN as N	5	0	N/A				0.85	0.85	0.86	0.87	1.26	1.48	1.48
Total Phosphorus	5	0	N/A				0.04	0.04	0.04	0.05	0.1	0.12	0.12

**Fecal Coliform Screening(#/100mL)**

<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>
5	168.4	1	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:** 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				4.3	5.6	6.4	7.2	8.8	10.1	10.6
pH (SU)	85	0	<4.3	0	0		6.5	6.7	6.8	6.9	7.1	7.2	7.6
	85	0	>9	0	0		6.5	6.7	6.8	6.9	7.1	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				92	106	124	141	160	216	536
Water Temperature (°C)	85	0	>32	0	0		2.4	7.8	12	21.3	26	27.7	30.9
<b>Other</b>													
TSS (mg/L)	60	7	N/A				2.8	2.9	3.5	7.2	14	18	39
Turbidity (NTU)	60	0	>50	0	0		3.2	5.4	6.5	11	20.8	27.9	45
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.02	0.05	0.07	0.09	0.12	0.16	0.18
NO2 + NO3 as N	60	0	N/A				0.11	0.18	0.3	0.4	0.47	0.69	1.59
TKN as N	60	1	N/A				0.2	0.57	0.71	0.86	1.09	1.42	1.9
Total Phosphorus	56	3	N/A				0.02	0.04	0.08	0.11	0.22	0.35	0.94
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	119.8	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:** 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				3.6	6	6.6	7.4	9.2	10.3	10.8
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				87	107	118	131	151	168	373
Water Temperature (°C)	85	0	>32	0	0		2.7	8.2	12.2	21	26.3	28	32
<b>Other</b>													
TSS (mg/L)	60	15	N/A				1.3	2.9	3.1	5.2	7.7	11.9	29
Turbidity (NTU)	60	0	>50	0	0		2.6	4.3	6.1	9	14	22.7	31
<b>Nutrients (mg/L)</b>													
NH3 as N	60	5	N/A				0.02	0.02	0.05	0.08	0.1	0.13	0.83
NO2 + NO3 as N	60	0	N/A				0.04	0.17	0.21	0.34	0.46	0.61	0.9
TKN as N	60	0	N/A				0.38	0.59	0.68	0.86	1.1	1.33	2.33
Total Phosphorus	56	3	N/A				0.02	0.05	0.07	0.1	0.18	0.27	0.74
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	104.8	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:** 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:** 01/29/2010 to 12/29/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	77	0	N/A				1.8	4.8	5.6	6.6	8	9.4	11.2
pH (SU)	77	0	<4.3	0	0		5.9	6.4	6.6	6.7	6.8	7	7.3
	77	0	>9	0	0		5.9	6.4	6.6	6.7	6.8	7	7.3
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				60	84	94	107	133	161	178
Water Temperature (°C)	77	0	>32	0	0		1.9	8	13.8	20.5	24.6	25.9	28.7
<b>Other</b>													
TSS (mg/L)	53	17	N/A				2.3	2.9	2.9	4	7.8	21	52
Turbidity (NTU)	53	0	>50	0	0		3.3	4.9	6.4	9.2	15.5	25.6	43
<b>Nutrients (mg/L)</b>													
NH3 as N	53	2	N/A				0.01	0.02	0.05	0.08	0.1	0.12	0.26
NO2 + NO3 as N	53	3	N/A				0.01	0.03	0.1	0.17	0.26	0.42	0.84
TKN as N	53	0	N/A				0.22	0.55	0.72	0.89	1.2	1.47	2.35
Total Phosphorus	49	1	N/A				0.02	0.04	0.08	0.12	0.15	0.18	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	113	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:** 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:** 01/29/2010 to 12/29/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				5.3	6.3	6.7	7.5	8.8	10.3	11.6
pH (SU)	85	0	<4.3	0	0		6.3	6.6	6.9	7.1	7.2	7.3	7.4
	85	0	>9	0	0		6.3	6.6	6.9	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				83	95	105	114	122	134	179
Water Temperature (°C)	85	0	>32	0	0		2.9	7.9	11.9	20.4	25	26.5	27.7
<b>Other</b>													
TSS (mg/L)	60	14	N/A				2.7	2.9	3	5.8	12	16	26
Turbidity (NTU)	60	0	>50	0	0		3.3	4.5	6.2	8.8	15.8	20	35
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.02	0.04	0.06	0.09	0.12	0.16	0.47
NO2 + NO3 as N	60	0	N/A				0.19	0.24	0.34	0.52	0.83	1.12	2.29
TKN as N	60	0	N/A				0.47	0.57	0.66	0.81	1.07	1.41	2.1
Total Phosphorus	56	2	N/A				0.02	0.05	0.07	0.1	0.16	0.25	0.79
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	96.5	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:** 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				3.8	5.8	6.5	7.1	8.8	10.3	11.3
pH (SU)	85	0	<4.3	0	0		6.3	6.6	6.8	7	7.1	7.2	7.4
	85	0	>9	0	0		6.3	6.6	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				90	106	113	132	145	159	178
Water Temperature (°C)	85	0	>32	0	0		2.8	8.5	12.6	21.4	26.2	27.8	31.3
<b>Other</b>													
TSS (mg/L)	60	14	N/A				1.7	2.9	3.1	4.4	6.5	10	25
Turbidity (NTU)	60	0	>50	0	0		2.9	4.5	5.6	8.4	12	20.8	33
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.02	0.02	0.05	0.07	0.09	0.12	0.2
NO2 + NO3 as N	60	1	N/A				0.02	0.27	0.46	0.6	0.74	1.1	1.37
TKN as N	60	0	N/A				0.21	0.53	0.6	0.75	1.08	1.66	3.46
Total Phosphorus	56	2	N/A				0.02	0.05	0.08	0.11	0.16	0.2	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	71.5	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:** 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:** 01/04/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	247	0	N/A				0.6	5.3	6.1	7.3	9.6	10.7	12.8
pH (SU)	249	0	<4.3	0	0		4.9	5.8	6.1	6.3	6.5	6.8	9.2
	249	0	>9	1	0.4		4.9	5.8	6.1	6.3	6.5	6.8	9.2
Salinity (ppt)	249	0	N/A				0.02	0.03	0.04	0.05	0.05	0.06	0.11
Spec. conductance (umhos/cm at 25°C)	249	0	N/A				58	84	100	114	129	144	229
Water Temperature (°C)	249	0	>32	1	0.4		2	8.1	11.1	18.6	24.6	27.4	32.1
<b>Other</b>													
Chlorophyll a (ug/L)	60	20	>40	2	3.3		1	1	1	2	4	11	58
Hardness (mg/L)	20	0	N/A				20	20	24	29	31	32	32
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	6.2	7.5	8.5
Turbidity (NTU)	60	0	>50	0	0		3.3	3.9	5.2	6.6	8.1	10	18
<b>Nutrients (mg/L)</b>													
NH3 as N	246	34	N/A				0.02	0.02	0.02	0.04	0.07	0.1	0.34
NO2 + NO3 as N	246	1	N/A				0.02	0.37	0.47	0.59	0.72	0.83	1.3
TKN as N	245	0	N/A				0.39	0.51	0.57	0.66	0.76	0.88	1.3
Total Phosphorus	245	0	N/A				0.05	0.07	0.1	0.13	0.18	0.22	0.33

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	67.3	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:** 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:** 01/29/2010 to 12/29/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				1.2	3.5	5.6	6.6	7.8	9.1	10.4
pH (SU)	85	0	<4.3	0	0		5.7	6.3	6.5	6.6	6.8	6.9	7.4
	85	0	>9	0	0		5.7	6.3	6.5	6.6	6.8	6.9	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				85	105	126	148	169	211	775
Water Temperature (°C)	85	0	>32	0	0		2.1	7.5	11.6	20.1	24.6	26.1	29.1
<b>Other</b>													
TSS (mg/L)	60	12	N/A				2.8	2.9	3.6	5.2	6.3	8.4	20
Turbidity (NTU)	60	0	>50	0	0		3.2	5	7	9.5	11	14	25
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.03	0.08	0.13	0.22	0.44	0.74	2
NO2 + NO3 as N	60	2	N/A				0.01	0.1	0.2	0.34	0.5	0.71	9.6
TKN as N	60	0	N/A				0.62	0.71	0.98	1.34	1.74	2.21	2.73
Total Phosphorus	56	0	N/A				0.04	0.09	0.13	0.25	0.37	0.57	2.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	196.7	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:** 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:** 01/04/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	N/A				3.6	4	4.6	6.1	8.9	10.9	13.1
pH (SU)	57	0	<4.3	0	0		4.4	5.8	6.1	6.4	6.6	7	8.2
	57	0	>9	0	0		4.4	5.8	6.1	6.4	6.6	7	8.2
Salinity (ppt)	57	0	N/A				0.04	0.04	0.05	0.06	0.07	0.09	0.11
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				96	104	116	135	154	195	239
Water Temperature (°C)	57	0	>32	0	0		0.6	5.7	9.4	17.1	22.6	27.5	28.3
<b>Other</b>													
Chlorophyll a (ug/L)	55	6	>40	1	1.8		1	1	2	2	5	16	42
Hardness (mg/L)	19	0	N/A				31	32	33	39	42	59	61
TSS (mg/L)	18	16	N/A				6.2	6.2	6.2	6.2	6.2	7.3	12
Turbidity (NTU)	57	0	>50	1	1.8		2.8	3.7	4.4	6.4	7.8	11	110
<b>Nutrients (mg/L)</b>													
NH3 as N	57	13	N/A				0.02	0.02	0.02	0.04	0.08	0.13	0.35
NO2 + NO3 as N	57	5	N/A				0.02	0.02	0.07	0.24	0.4	0.7	1.2
TKN as N	56	0	N/A				0.53	0.57	0.66	0.8	0.94	1.3	1.6
Total Phosphorus	56	0	N/A				0.05	0.08	0.16	0.26	0.36	0.46	0.69
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	112.8	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:** 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:** 01/29/2010 to 12/29/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				1.1	5.4	6	6.6	8.2	9.9	10.5
pH (SU)	85	0	<4.3	0	0		6.1	6.6	6.7	6.8	6.9	7.1	7.3
	85	0	>9	0	0		6.1	6.6	6.7	6.8	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				91	127	144	162	178	187	217
Water Temperature (°C)	85	0	>32	0	0		3.1	8.4	12.4	21	25.6	27.2	29.3
<b>Other</b>													
TSS (mg/L)	60	21	N/A				2.3	2.8	2.9	3.7	5.3	8.4	32
Turbidity (NTU)	60	0	>50	0	0		3.3	4.8	5.7	8	10	12.9	29
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.03	0.05	0.08	0.1	0.19	0.35
NO2 + NO3 as N	60	1	N/A				0.01	0.12	0.29	0.46	0.63	0.91	1.56
TKN as N	60	0	N/A				0.32	0.61	0.67	0.8	1.02	1.34	2.45
Total Phosphorus	56	0	N/A				0.05	0.08	0.13	0.21	0.26	0.31	0.83
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	132.8	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:** 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:** 01/04/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	58	0	N/A				1.1	4.6	5.9	7.3	9.6	12.2
pH (SU)	60	0	<4.3	0	0		5.1	6.2	6.3	6.5	6.7	7.1
	60	0	>9	0	0		5.1	6.2	6.3	6.5	6.7	7.1
Salinity (ppt)	60	0	N/A				0.03	0.03	0.04	0.05	0.06	0.08
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				78	90	104	118	133	173
Water Temperature (°C)	60	0	>32	0	0		2.9	7.1	10.5	18.7	24.3	29.5
<b>Other</b>												
Chlorophyll a (ug/L)	60	18	>40	1	1.7		1	1	1	2	2	56
Hardness (mg/L)	20	0	N/A				20	24	26	32	36	41
TSS (mg/L)	19	16	N/A				6.2	6.2	6.2	6.2	7.2	12
Turbidity (NTU)	60	0	>50	0	0		2.6	3.6	4.6	6.4	7.8	20
<b>Nutrients (mg/L)</b>												
NH3 as N	59	6	N/A				0.02	0.02	0.02	0.04	0.07	0.24
NO2 + NO3 as N	60	0	N/A				0.06	0.33	0.4	0.55	0.64	1.2
TKN as N	58	0	N/A				0.43	0.48	0.55	0.62	0.74	1.2
Total Phosphorus	59	0	N/A				0.03	0.07	0.1	0.15	0.19	0.37
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
59	48.5	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 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:** 01/07/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	N/A				5.5	6.2	6.4	7.2	9.2	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	106	120	141	160	177	227
Water Temperature (°C)	85	0	>32	1	1.2		2.7	7.9	12.4	23.2	26.2	28	32.4
<b>Other</b>													
Chlorophyll a (ug/L)	60	9	>40	0	0		1	1	1	3	5	10	19
TSS (mg/L)	60	10	N/A				2.2	2.9	3.2	7	11.8	18	123
Turbidity (NTU)	60	0	>50	2	3.3		3.1	5	6.2	10	15.8	23.9	140
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.01	0.02	0.05	0.07	0.1	0.18	0.23
NO2 + NO3 as N	60	1	N/A				0.02	0.32	0.41	0.53	0.69	0.84	1.28
TKN as N	60	0	N/A				0.4	0.48	0.64	0.8	0.99	1.37	1.96
Total Phosphorus	56	0	N/A				0.04	0.07	0.08	0.12	0.17	0.21	0.58
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	67.8	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:** 01/04/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	247	0	N/A				0	5.4	6.2	7.4	9.7	10.8	13.1
pH (SU)	249	0	<4.3	0	0		5.6	6.3	6.5	6.7	6.9	7.2	8.5
	249	0	>9	0	0		5.6	6.3	6.5	6.7	6.9	7.2	8.5
Salinity (ppt)	249	0	N/A				0.02	0.03	0.04	0.06	0.07	0.08	0.12
Spec. conductance (umhos/cm at 25°C)	249	0	N/A				65	92	110	136	159	180	252
Water Temperature (°C)	248	0	>32	1	0.4		2.1	8.2	11.4	19.6	25.6	28.7	32.7
<b>Other</b>													
Chlorophyll a (ug/L)	60	6	>40	0	0		1	1	1	3	7	15	25
Hardness (mg/L)	20	0	N/A				13	20	27	33	38	42	44
TSS (mg/L)	19	5	N/A				6.2	6.2	7.5	9.2	14	19	32
Turbidity (NTU)	60	0	>50	0	0		2.7	4.6	7.2	11	14.8	22	31
<b>Nutrients (mg/L)</b>													
NH3 as N	245	53	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.18
NO2 + NO3 as N	245	4	N/A				0.02	0.3	0.44	0.55	0.66	0.76	1.1
TKN as N	244	0	N/A				0.35	0.46	0.53	0.61	0.7	0.81	1.6
Total Phosphorus	244	0	N/A				0.05	0.08	0.1	0.13	0.16	0.18	0.45

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
58	47.3	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:** 02/24/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	54	0	N/A				0.2	4.9	6.1	7.2	9.7	12.3
pH (SU)	53	0	<4.3	0	0		6.5	6.6	6.7	6.9	7.2	7.7
	53	0	>9	0	0		6.5	6.6	6.7	6.9	7.2	7.7
Salinity (ppt)	54	0	N/A				0.03	0.04	0.05	0.06	0.07	0.13
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				86	96	114	130	154	274
Water Temperature (°C)	54	0	>32	0	0		3.9	8.6	10.2	19.5	26.4	31.3
<b>Other</b>												
Hardness (mg/L)	19	0	N/A				27	28	32	34	37	54
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	7	16
Turbidity (NTU)	55	1	>50	0	0		1	4.3	6	8	12	29
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
55	36.9	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:** 01/04/2010 to 09/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	N/A				0.6	1.7	2.4	4.8	9.1	11.6	12.6
pH (SU)	57	0	<4.3	1	1.8		3.9	5.6	5.8	6.1	6.3	6.6	7.1
	57	0	>9	0	0		3.9	5.6	5.8	6.1	6.3	6.6	7.1
Salinity (ppt)	57	0	N/A				0.01	0.02	0.02	0.03	0.03	0.05	0.09
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				55	63	66	75	89	124	187
Water Temperature (°C)	57	0	>32	0	0		0.1	6.6	10.6	18.5	22.4	26.4	27.8
<b>Other</b>													
Chlorophyll a (ug/L)	56	11	>40	5	8.9		1	1	1	2	4	40	390
Hardness (mg/L)	19	0	N/A				17	17	18	25	30	41	50
TSS (mg/L)	18	12	N/A				6.2	6.2	6.2	6.2	17.2	38.7	54
Turbidity (NTU)	57	0	>50	2	3.5		1.6	2.5	3.7	5.6	8.6	24.8	170
<b>Nutrients (mg/L)</b>													
NH3 as N	57	21	N/A				0.02	0.02	0.02	0.03	0.13	0.77	1.8
NO2 + NO3 as N	57	29	N/A				0.02	0.02	0.02	0.02	0.1	0.22	3.1
TKN as N	56	0	N/A				0.4	0.45	0.64	1	1.58	2.19	3.2
Total Phosphorus	56	0	N/A				0.02	0.02	0.04	0.08	0.14	0.26	0.42
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	136.3	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:** 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:** 02/24/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	N/A				0.2	2.7	3.6	6	7.7	9	10.7
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)	54	0	N/A				0.02	0.04	0.06	0.08	0.11	0.39	0.92
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				75	106	133	165	234	754	1549
Water Temperature (°C)	54	0	>32	0	0		4.2	8.8	11.5	20.2	26.2	28.9	31.3
<b>Other</b>													
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	11.8	12
Turbidity (NTU)	55	0	>25	0	0		1.8	3.3	3.8	5	7.2	11	20
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	39.8	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:** 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:** 01/04/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	245	0	N/A				0	3.3	4.1	5.1	8	10	12
pH (SU)	247	0	<4.3	0	0		5.2	6	6.3	6.5	6.7	6.9	8.1
	247	0	>8.5	0	0		5.2	6	6.3	6.5	6.7	6.9	8.1
Salinity (ppt)	247	0	N/A				0.01	0.04	0.05	0.07	0.09	0.11	5.84
Spec. conductance (umhos/cm at 25°C)	247	0	N/A				53	100	125	154	191	229	10300
Water Temperature (°C)	247	0	>32	3	1.2		2.1	8.9	12.4	20.5	25.4	28.6	33.4
<b>Nutrients (mg/L)</b>													
NH3 as N	244	40	N/A				0.02	0.02	0.02	0.03	0.06	0.09	0.28
NO2 + NO3 as N	244	10	N/A				0.02	0.16	0.26	0.41	0.6	0.82	1.2
TKN as N	243	0	N/A				0.24	0.47	0.53	0.63	0.73	0.85	3
Total Phosphorus	243	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:** 02/24/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	N/A				0.2	4.6	5.5	6.8	9.1	10.4	12.3
pH (SU)	53	0	<4.3	0	0		6.4	6.6	6.7	6.9	7.1	7.4	7.8
	53	0	>8.5	0	0		6.4	6.6	6.7	6.9	7.1	7.4	7.8
Salinity (ppt)	54	0	N/A				0.03	0.04	0.05	0.07	0.1	0.22	0.8
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				91	101	125	151	212	434	1483
Water Temperature (°C)	54	0	>32	0	0		3.8	8.6	10.3	19.8	25.7	28.8	30.7
<b>Other</b>													
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.8	12	19
Turbidity (NTU)	55	0	>25	0	0		2.6	4.5	5.8	7.4	10	15.8	20
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	30.3	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:** 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:** 02/24/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	54	0	N/A				0.2	4.4	5.3	6.6	8.8	10.5	12.5
pH (SU)	53	0	<4.3	0	0		6	6.6	6.7	6.9	7.1	7.2	7.8
	53	0	>8.5	0	0		6	6.6	6.7	6.9	7.1	7.2	7.8
Salinity (ppt)	54	0	N/A				0.03	0.04	0.06	0.1	0.71	1.46	3.85
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				92	104	130	200	1339	2740	6917
Water Temperature (°C)	54	0	>32	0	0		3.8	9	10.7	20.1	26.2	28.8	30.7
<b>Other</b>													
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	13.8	16
Turbidity (NTU)	55	0	>25	0	0		2.6	3.9	5	6.6	9.4	16.4	22

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
55	24.1	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:** 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:** 02/24/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	N/A				0.2	5	6.9	8	9.4	10.8	12.5
pH (SU)	53	0	<4.3	0	0		6.6	6.7	6.9	7.1	7.3	7.7	8.6
	53	0	>8.5	1	1.9		6.6	6.7	6.9	7.1	7.3	7.7	8.6
Salinity (ppt)	53	0	N/A				0.04	0.06	0.14	1.48	3.3	5.75	8.42
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				96	153	311	2652	6269	10146	14532
Water Temperature (°C)	54	0	>32	0	0		3.6	8.8	10.9	20.6	27	29	31.2

<b>Other</b>													
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	12	16
Turbidity (NTU)	55	0	>25	0	0		1.6	3	4.8	6.1	8.2	11.4	19

<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
55	30.4	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:** 01/04/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	N/A				3.1	4.3	5.1	6.4	8.6	11.8	
pH (SU)	60	0	<4.3	0	0		5.6	6.3	6.5	6.9	7	7.2	8.3
	60	0	>9	0	0		5.6	6.3	6.5	6.9	7	7.2	8.3
Salinity (ppt)	60	0	N/A				0.04	0.05	0.05	0.07	0.09	0.12	0.14
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				100	114	131	160	188	256	285
Water Temperature (°C)	60	0	>32	0	0		2.5	7.2	11	18.3	22.6	26.4	29.1
<b>Other</b>													
Chlorophyll a (ug/L)	58	40	>40	0	0		1	1	1	1	2	4	14
Hardness (mg/L)	20	0	N/A				36	37	46	60	74	109	110
TSS (mg/L)	19	19	N/A				6.2	6.2	6.2	6.2	12	12	12
Turbidity (NTU)	60	0	>50	0	0		1	1.7	2.3	3.4	4.6	5.6	7.8
<b>Nutrients (mg/L)</b>													
NH3 as N	60	27	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.47
NO2 + NO3 as N	60	0	N/A				0.08	0.31	0.5	0.74	0.94	1.5	1.9
TKN as N	59	0	N/A				0.41	0.55	0.61	0.7	0.84	1	2
Total Phosphorus	59	0	N/A				0.03	0.04	0.05	0.08	0.11	0.13	0.28
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	96.9	3	5.2										

**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:** 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:** 01/05/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	246	0	N/A				0	3.8	4.6	5.6	7.8	9.9	11.7
pH (SU)	249	0	<4.3	0	0		5.2	6.5	6.7	6.9	7	7.2	8.2
	249	0	>9	0	0		5.2	6.5	6.7	6.9	7	7.2	8.2
Salinity (ppt)	249	0	N/A				0.02	0.05	0.07	0.08	0.1	0.12	2.18
Spec. conductance (umhos/cm at 25°C)	249	0	N/A				72	119	152	182	222	245	3998
Water Temperature (°C)	249	0	>32	0	0		3.2	8.5	12.2	19.7	24.8	27.8	31
<b>Nutrients (mg/L)</b>													
NH3 as N	245	79	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.38
NO2 + NO3 as N	244	1	N/A				0.02	0.24	0.42	0.59	0.76	0.88	1.3
TKN as N	244	0	N/A				0.33	0.42	0.5	0.6	0.73	0.86	2.2
Total Phosphorus	244	0	N/A				0.05	0.07	0.09	0.12	0.15	0.16	0.46

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 02/24/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	53	0	N/A				0.6	4.5	5.2	6.7	8	10.3	14.7
pH (SU)	52	0	<4.3	0	0		6.4	6.8	7	7.1	7.3	7.4	8.6
	52	0	>8.5	1	1.9		6.4	6.8	7	7.1	7.3	7.4	8.6
Salinity (ppt)	52	0	N/A				0.04	0.08	0.12	0.99	2.3	3.79	10.77
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				106	173	260	1794	4185	6742	18257
Water Temperature (°C)	53	0	>32	1	1.9		5.7	9.5	11.4	20.6	27.8	30	32.1
<b>Other</b>													
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	12	12
Turbidity (NTU)	54	0	>25	0	0		1.3	1.8	2.2	3.5	5	7.1	14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	28	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:** 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:** 01/07/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	N/A				3.4	6	6.4	7.1	8.8	10.5	12.9
pH (SU)	85	0	<4.3	0	0		6.5	6.8	6.9	7.2	7.4	7.6	9.3
	85	0	>8.5	2	2.4		6.5	6.8	6.9	7.2	7.4	7.6	9.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				142	300	851	2060	6921	10131	19138
Water Temperature (°C)	85	0	>32	0	0		2.5	8	12.5	23.4	26.4	28.9	31.3
<b>Other</b>													
Chlorophyll a (ug/L)	60	1	>40	2	3.3		1	2	3	7	13	31	69
TSS (mg/L)	60	7	N/A				2	2.8	3.6	5.6	8.6	11	25
Turbidity (NTU)	60	0	>25	0	0		1.9	3.1	4	5.8	9.4	12.9	25
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.01	0.03	0.05	0.08	0.11	0.18	0.24
NO2 + NO3 as N	60	2	N/A				0.01	0.07	0.22	0.36	0.48	0.58	0.98
TKN as N	60	0	N/A				0.64	0.69	0.77	1.01	1.14	1.27	1.84
Total Phosphorus	56	1	N/A				0.02	0.06	0.08	0.1	0.13	0.2	0.32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	82	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:** 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:** 02/24/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	53	0	N/A				1.4	5.8	7.6	9	10.2	11	12.9
pH (SU)	52	0	<4.3	0	0		6.3	6.7	7	7.3	7.7	8.2	8.7
	52	0	>8.5	1	1.9		6.3	6.7	7	7.3	7.7	8.2	8.7
Salinity (ppt)	53	0	N/A				0.1	0.22	0.36	3.34	5.36	7.82	11.75
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				215	409	702	6055	9586	13556	19787
Water Temperature (°C)	53	0	>32	0	0		3.6	8.9	10.8	20.2	26.4	28.8	30.1
<b>Other</b>													
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	7.2	11.9	12
Turbidity (NTU)	55	0	>25	0	0		1.5	3.2	4.4	5.6	7.4	10.7	14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	17.6	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:** 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:** 02/24/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	N/A				4	6.8	8.3	10.1	11.2	12.6	16.3
pH (SU)	52	0	<4.3	0	0		6.4	7	7.5	7.9	8.2	8.4	8.8
	52	0	>8.5	4	7.7		6.4	7	7.5	7.9	8.2	8.4	8.8
Salinity (ppt)	54	0	N/A				0.77	1.4	2.28	5.48	8.74	11.76	14.65
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				1443	2584	4125	9631	15087	19880	24210
Water Temperature (°C)	54	0	>32	0	0		3.1	8.7	12	20.2	26.2	28.9	29.8
<b>Other</b>													
TSS (mg/L)	19	10	N/A				6.2	6.2	6.2	7	10	16	18
Turbidity (NTU)	54	0	>25	0	0		1.7	3	3.8	5	7.3	9.7	25

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	5.8	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:** 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:** 02/24/2010 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)	6	0	N/A				6.6	6.6	7.2	8.8	10	11.7	11.7
pH (SU)	5	0	<4.3	0	0		7.2	7.2	7.4	7.7	7.9	8	8
	5	0	>8.5	0	0		7.2	7.2	7.4	7.7	7.9	8	8
Salinity (ppt)	6	0	N/A				1.16	1.16	1.25	2.25	3.87	7.02	7.02
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				2096	2096	2317	4138	6974	12207	12207
Water Temperature (°C)	6	0	>32	0	0		8.5	8.5	13.3	21.6	29.2	30.3	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:** 02/24/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	N/A				3.9	6.9	8.1	9.8	12	12.7	14.8
pH (SU)	52	0	<4.3	0	0		6.9	7.3	7.7	8	8.3	8.6	8.9
	52	0	>8.5	9	17.3	92.8	6.9	7.3	7.7	8	8.3	8.6	8.9
Salinity (ppt)	53	0	N/A				1.18	1.83	3.52	8.05	10.66	13.23	17.18
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				2208	3360	6074	13780	18190	22142	27980
Water Temperature (°C)	53	0	>32	0	0		3.5	8.4	11	19.9	25.9	29.2	31.5

<b>Other</b>													
TSS (mg/L)	19	11	N/A				6.2	6.2	6.2	6.2	12	14	15
Turbidity (NTU)	53	0	>25	0	0		1.6	2.1	3	4.4	6.4	8.2	9.7

<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
53	2.8	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:** 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:** 02/24/2010 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)	6	0	N/A				7.8	7.8	8	8.8	11.9	12.1	12.1
pH (SU)	6	0	<4.3	0	0		7.5	7.5	7.6	7.9	8.4	8.9	8.9
	6	0	>8.5	1	16.7		7.5	7.5	7.6	7.9	8.4	8.9	8.9
Salinity (ppt)	6	0	N/A				1.77	1.77	1.93	4.32	6.36	8.65	8.65
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				3249	3249	3558	7835	11217	14988	14988
Water Temperature (°C)	6	0	>32	1	16.7		8.5	8.5	13.1	24.1	31.2	34.1	34.1

**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 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:** 02/24/2010 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)	6	0	N/A				7.7	7.7	8.1	9.2	11.8	12.3	12.3
pH (SU)	6	0	<4.3	0	0		7.6	7.6	7.7	7.9	8.3	8.9	8.9
	6	0	>8.5	1	16.7		7.6	7.6	7.7	7.9	8.3	8.9	8.9
Salinity (ppt)	6	0	N/A				2.14	2.14	2.91	5.27	7.2	8.99	8.99
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				3950	3950	5297	9408	12571	15537	15537
Water Temperature (°C)	6	0	>32	1	16.7		8.5	8.5	12.8	23.6	30.5	32.2	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:** 01/07/2010 to 07/31/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	76	0	N/A				4.7	6	6.4	6.9	9	10.3	11.5
pH (SU)	77	0	<4.3	0	0		5.8	6.7	6.9	7.2	7.3	7.6	8.5
	77	0	>8.5	0	0		5.8	6.7	6.9	7.2	7.3	7.6	8.5
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				132	379	940	2134	8492	14048	24918
Water Temperature (°C)	77	0	>32	1	1.3		4.1	7.6	12.5	23.9	26.5	29.3	32.2
<b>Other</b>													
Chlorophyll a (ug/L)	54	1	>40	6	11.1	54.2	1	2	7	20	33	42	84
TSS (mg/L)	54	5	N/A				1	3.1	5.4	8.2	14	17	24
Turbidity (NTU)	54	0	>25	0	0		2.3	3.6	4.9	6.4	7.4	10.2	15
<b>Nutrients (mg/L)</b>													
NH3 as N	54	16	N/A				0.01	0.02	0.02	0.04	0.07	0.09	0.12
NO2 + NO3 as N	54	24	N/A				0.01	0.01	0.02	0.02	0.08	0.16	0.81
TKN as N	54	0	N/A				0.55	0.8	0.88	1.06	1.41	1.6	2.15
Total Phosphorus	50	2	N/A				0.02	0.03	0.06	0.07	0.1	0.16	0.34

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
54	54.2	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:** 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:** 02/24/2010 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)	6	0	N/A				7.9	7.9	7.9	9.4	11.4	12.8	12.8
pH (SU)	6	0	<4.3	0	0		7.7	7.7	7.8	8	8.2	8.5	8.5
	6	0	>8.5	0	0		7.7	7.7	7.8	8	8.2	8.5	8.5
Salinity (ppt)	6	0	N/A				2.83	2.83	4.53	5.86	8.09	10.17	10.17
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				5180	5180	8076	10408	13994	17393	17393
Water Temperature (°C)	6	0	>32	0	0		8.1	8.1	12.7	23.2	30.8	31.9	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:** 02/24/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	<5	0	0		6.2	6.8	8.2	9.8	11	12.7	14.7
pH (SU)	52	0	<6.8	0	0		7.3	7.7	7.9	8	8.2	8.6	8.9
	52	0	>8.5	5	9.6		7.3	7.7	7.9	8	8.2	8.6	8.9
Salinity (ppt)	53	0	N/A				2.3	4.14	6.9	10.56	12.84	14.61	20.52
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				4216	7194	12070	18056	21658	24211	32872
Water Temperature (°C)	53	0	>32	1	1.9		3.4	8.8	11.6	19	26	29.1	32.1
<b>Other</b>													
TSS (mg/L)	19	13	N/A				6.2	6.2	6.2	6.5	12	19	21
Turbidity (NTU)	53	0	>25	0	0		1.5	1.8	3	4.2	5.4	7.7	14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
53	1.4	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:** 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:** 02/24/2010 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)	6	0	<5	0	0		7.5	7.5	7.9	9.3	11.6	12.6	12.6
pH (SU)	6	0	<6.8	0	0		7.9	7.9	7.9	8	8.3	8.8	8.8
Salinity (ppt)	6	0	>8.5	1	16.7		7.9	7.9	7.9	8	8.3	8.8	8.8
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				4.33	4.33	5.45	7.38	9.49	11.85	11.85
Water Temperature (°C)	6	0	>32	1	16.7		7.8	7.8	12.4	22.8	30.3	32.3	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:** 02/24/2010 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)	6	0	<5	0	0		7.7	7.7	8.2	9.6	11.8	13.6	13.6
pH (SU)	6	0	<6.8	0	0		8	8	8	8	8.3	8.5	8.5
	6	0	>8.5	0	0		8	8	8	8	8.3	8.5	8.5
Salinity (ppt)	6	0	N/A				4.92	4.92	5.89	9.21	10.06	11.94	11.94
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				8759	8759	10362	15830	17158	20166	20166
Water Temperature (°C)	6	0	>32	0	0		6.9	6.9	11.9	22.4	30	30.9	30.9

**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 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:** 02/24/2010 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)	6	0	<5	0	0		7.5	7.5	8.2	9.4	12	14.2	14.2
pH (SU)	6	0	<6.8	0	0		8	8	8	8.2	8.4	8.5	8.5
	6	0	>8.5	0	0		8	8	8	8.2	8.4	8.5	8.5
Salinity (ppt)	6	0	N/A				6.09	6.09	6.78	8.46	10.46	13.02	13.02
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				10730	10730	11822	14620	17767	21764	21764
Water Temperature (°C)	6	0	>32	0	0		8.2	8.2	12.1	22.2	29.5	30.8	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)

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

**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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<5	12	21.4	99.1	0.1	3.2	5.7	7.5	9.2	10.7	12.5
pH (SU)	55	0	<6.8	18	32.7	> 99.9	5.7	6.4	6.5	7.1	7.4	7.8	8.4
	55	0	>8.5	0	0		5.7	6.4	6.5	7.1	7.4	7.8	8.4
Salinity (ppt)	57	0	N/A				0.11	0.83	3.06	7.8	11.28	24.96	31.94
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				231	1500	4968	12544	19308	39502	48795
Water Temperature (°C)	56	0	>32	4	7.1		5.5	9.6	13.5	20.2	27.2	30.9	34.2
<b>Other</b>													
Chlorophyll a (ug/L)	55	1	>40	5	9.1		1	2	5	11	23	41	113
TSS (mg/L)	20	7	N/A				6.2	6.2	6.4	7	11.3	14	16
Turbidity (NTU)	57	0	>25	1	1.8		2.1	3.6	4.8	6.8	9.7	13	31
<b>Nutrients (mg/L)</b>													
NH3 as N	56	23	N/A				0.02	0.02	0.02	0.06	0.14	0.33	1.6
NO2 + NO3 as N	56	16	N/A				0.02	0.02	0.02	0.14	0.46	2.05	4.7
TKN as N	56	0	N/A				0.49	0.6	0.71	0.86	1.2	1.73	3.4
Total Phosphorus	56	0	N/A				0.03	0.04	0.05	0.07	0.13	0.24	0.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
57	109.3	5	8.8		120	42	74	> 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:** 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:** 02/24/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	53	0	<5	0	0		5.8	6.9	8	9.3	10.4	12.3	13.3
pH (SU)	53	0	<6.8	0	0		7.2	7.7	7.9	8	8.1	8.2	8.9
Salinity (ppt)	53	0	>8.5	2	3.8		7.2	7.7	7.9	8	8.1	8.2	8.9
	54	0	N/A				5.97	7.42	10.63	13.59	15.88	17.58	23.44
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				10537	12798	17994	22624	26098	28573	37001
Water Temperature (°C)	54	0	>32	0	0		4.1	9	11.9	19.4	26.1	29	30.8
<b>Other</b>													
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	11	12	28
Turbidity (NTU)	54	0	>25	0	0		1	1.4	2.2	3	3.7	4.5	6.9
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
54	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

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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:** 03/25/2010 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)	5	0	<5	0	0		7.4	7.4	7.9	8.9	9.8	10.7	10.7
pH (SU)	5	0	<6.8	0	0		8	8	8	8	8	8.1	8.1
	5	0	>8.5	0	0		8	8	8	8	8	8.1	8.1
Salinity (ppt)	5	0	N/A				8.02	8.02	8.14	10.6	13.08	14.18	14.18
Spec. conductance (umhos/cm at 25°C)	5	0	N/A				13895	13895	14078	17998	21892	23556	23556
Water Temperature (°C)	5	0	>32	0	0		12.9	12.9	16.2	23.8	29.8	30.4	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)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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 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:** 03/25/2010 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)	5	0	<5	0	0		7.2	7.2	7.7	8.6	9.7	10.5	10.5
pH (SU)	5	0	<6.8	0	0		7.9	7.9	7.9	8	8.2	8.2	8.2
	5	0	>8.5	0	0		7.9	7.9	7.9	8	8.2	8.2	8.2
Salinity (ppt)	5	0	N/A				8.5	8.5	8.59	11.61	13.56	14.51	14.51
Spec. conductance (umhos/cm at 25°C)	5	0	N/A				14676	14676	14751	19525	22674	24137	24137
Water Temperature (°C)	5	0	>32	0	0		13.3	13.3	16.5	23.8	29	29.4	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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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 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:** 03/25/2010 to 07/23/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<5	0	0		6.8	7.2	7.5	8	8.6	9.6	10.6
pH (SU)	25	0	<6.8	0	0		7.4	7.8	7.9	8	8	8.1	8.2
	25	0	>8.5	0	0		7.4	7.8	7.9	8	8	8.1	8.2
Salinity (ppt)	25	0	N/A				8.94	10.25	13.71	17.31	19.39	21.94	24.9
Spec. conductance (umhos/cm at 25°C)	25	0	N/A				15378	17441	22804	28171	31220	34877	39089
Water Temperature (°C)	25	0	>32	0	0		13.3	17.9	21.4	26	28.6	29.1	29.8
<b>Other</b>													
TSS (mg/L)	8	4	N/A				6.2	6.2	6.2	6.2	6.9	7	7
Turbidity (NTU)	25	0	>25	0	0		1.5	1.7	2	2.7	3.2	4.1	4.7
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
25	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:** 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:** 01/05/2010 to 06/23/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	5	0	<5	0	0		6.1	6.1	7.1	9.7	12.4	13.1	13.1
pH (SU)	5	0	<6.8	0	0		7.5	7.5	7.5	7.8	7.8	7.8	7.8
Salinity (ppt)	5	0	>8.5	0	0		7.5	7.5	7.5	7.8	7.8	7.8	7.8
Spec. conductance (umhos/cm at 25°C)	5	0	N/A				9.7	9.7	9.8	9.98	13.15	13.7	13.7
Water Temperature (°C)	5	0	>32	0	0		16582	16582	16686	17026	21896	22681	22681
<b>Other</b>													
TSS (mg/L)	2	0	N/A				3.4	3.4	4.4	15.3	25	29.8	29.8
Turbidity (NTU)	5	0	>25	0	0		7.5	7.5	7.5	8.5	9.5	9.5	9.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
5	1.9	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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New

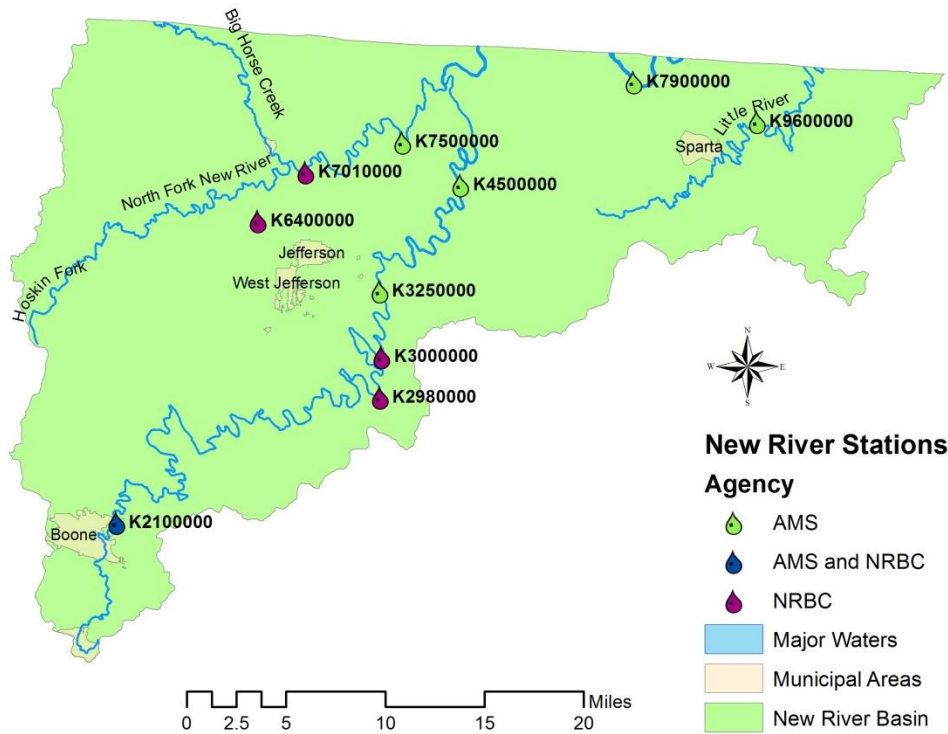


Figure NEW-1. New River basin ambient monitoring station locations.

Table NEW-1. Ambient monitoring stations in the New River basin.

Station	Agency	Location	Stream Class	Latitude	Longitude
K2100000	AMS & NRBC	S Fork New River at US 221 and 421 at Perkenville	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:** 01/26/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		7.4	8.2	8.5	10.1	11.8	12.8	15.2
pH (SU)	55	0	<5	0	0		7.4	8.2	8.5	10.1	11.8	12.8	15.2
	54	0	<6	0	0		6.8	7.1	7.2	7.5	7.8	8	8.3
Spec. conductance (umhos/cm at 25°C)	54	0	>9	0	0		6.8	7.1	7.2	7.5	7.8	8	8.3
	53	0	N/A				48	92	112	158	201	225	268
Water Temperature (°C)	55	0	>29	0	0		0.4	4.6	7.3	15	19.1	21.9	25.7
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				19	20	26	31	40	41	41
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	11.1	42.9	120
Turbidity (NTU)	56	4	>50	1	1.8		1	1.1	1.5	2.1	3.6	6.4	60
<b>Nutrients (mg/L)</b>													
NH3 as N	56	38	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.06
NO2 + NO3 as N	56	0	N/A				0.36	0.73	0.98	1.55	2.2	3.03	3.6
TKN as N	56	12	N/A				0.2	0.2	0.2	0.2	0.29	0.36	0.71
Total Phosphorus	56	4	N/A				0.02	0.02	0.02	0.04	0.13	0.2	0.28
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	76.4	5	9.3										

**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:** 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
<b>Field</b>													
D.O. (mg/L)	26	0	<4	0	0		8.4	8.6	8.9	9.9	11.4	13.1	14.2
pH (SU)	26	0	<5	0	0		8.4	8.6	8.9	9.9	11.4	13.1	14.2
	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	8.4	14.6	17.8	22.6	23.7
<b>Other</b>													
Turbidity (NTU)	22	0	>50	2	9.1		0.6	1.2	1.4	3.2	4.6	49.5	103
<b>Nutrients (mg/L)</b>													
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	0.3	0.87	1.4
Total Phosphorus	24	6	N/A				0.02	0.02	0.04	0.14	0.16	0.3	0.39
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
20	65	3	15										

**Key:**

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Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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
<b>Field</b>												
D.O. (mg/L)	1	0	<4	0	0		8.4	8.4	8.4	8.4	8.4	8.4
pH (SU)	1	0	<5	0	0		8.4	8.4	8.4	8.4	8.4	8.4
Spec. conductance (umhos/cm at 25°C)	1	0	>9	0	0		8.4	8.4	8.4	8.4	8.4	8.4
Water Temperature (°C)	1	0	N/A				97	97	97	97	97	97
	1	0	>29	0	0		24.5	24.5	24.5	24.5	24.5	24.5
<b>Other</b>												
Turbidity (NTU)	1	0	>50	0	0		2.4	2.4	2.4	2.4	2.4	2.4
<b>Nutrients (mg/L)</b>												
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
<b>Field</b>													
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
<b>Other</b>													
Turbidity (NTU)	21	0	>50	0	0		0.6	0.9	2.4	3.8	12	15.6	50
<b>Nutrients (mg/L)</b>													
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	0.56	0.63	0.7	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	0.03	0.16	0.16	0.52
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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:** 01/25/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		7.1	8.5	9	10.3	12.4	13.6	14.3
pH (SU)	57	0	<5	0	0		7.1	8.5	9	10.3	12.4	13.6	14.3
	54	0	<6	0	0		6.5	7.3	7.6	7.8	8.1	8.4	9
	54	0	>9	0	0		6.5	7.3	7.6	7.8	8.1	8.4	9
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				43	57	65	72	78	86	141
Water Temperature (°C)	57	0	>29	0	0		0.3	3.6	7.2	13.7	20.6	23.5	25.2
<b>Other</b>													
Hardness (mg/L)	18	0	>100	0	0		16	16	18	20	21	22	22
TSS (mg/L)	18	11	N/A				6.2	6.2	6.2	9.1	12	42.8	68
Turbidity (NTU)	56	7	>50	3	5.4		1	1	1.8	2.7	6.8	21	330
<b>Nutrients (mg/L)</b>													
NH3 as N	57	45	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.11
NO2 + NO3 as N	57	0	>10	0	0		0.34	0.47	0.54	0.63	0.74	0.84	0.98
TKN as N	57	17	N/A				0.2	0.2	0.2	0.22	0.26	0.34	2.1
Total Phosphorus	57	24	N/A				0.02	0.02	0.02	0.02	0.04	0.08	1.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	40.5	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:** 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:** 01/25/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		7.2	8.2	8.9	10.1	12	12.7	14.6
pH (SU)	57	0	<5	0	0		7.2	8.2	8.9	10.1	12	12.7	14.6
	54	0	<6	0	0		6.6	7.3	7.5	7.7	8	8.4	9.2
	54	0	>9	1	1.9		6.6	7.3	7.5	7.7	8	8.4	9.2
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				54	60	66	74	78	84	146
Water Temperature (°C)	57	0	>29	0	0		0.3	3.5	6.8	13.7	22	24.6	27.7
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				18	19	19	21	22	24	26
TSS (mg/L)	19	13	N/A				6.2	6.2	6.2	6.2	9.8	20	47
Turbidity (NTU)	56	5	>50	3	5.4		1	1.1	1.7	3.8	8.1	27.6	310
<b>Nutrients (mg/L)</b>													
NH3 as N	56	48	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.12
NO2 + NO3 as N	56	0	N/A				0.33	0.38	0.5	0.6	0.7	0.82	0.97
TKN as N	56	13	N/A				0.2	0.2	0.2	0.21	0.29	0.44	3.3
Total Phosphorus	56	15	N/A				0.02	0.02	0.02	0.02	0.04	0.11	1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	29	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:** 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
<b>Field</b>													
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	7.4	7.5	7.7	7.9	8.1	8.3
	29	0	>9	0	0		6.4	7.4	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
<b>Other</b>													
Turbidity (NTU)	21	0	>10	5	23.8	94.8	0.6	0.7	1.4	4	10.4	19.6	45
<b>Nutrients (mg/L)</b>													
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	0.02	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-(21.5)

**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
<b>Field</b>													
D.O. (mg/L)	26	0	<4	0	0		7.6	8.6	9.8	10.5	12.2	13.7	15.5
pH (SU)	26	0	<5	0	0		7.6	8.6	9.8	10.5	12.2	13.7	15.5
	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
<b>Other</b>													
Turbidity (NTU)	22	0	>50	2	9.1		0.7	1.3	2.9	6.8	18.5	74.5	100
<b>Nutrients (mg/L)</b>													
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	0.02	0.04	0.16	0.16	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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-(21.5)

**Time period:** 01/25/2010 to 12/15/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6.7	8.3	8.9	10.4	12.2	12.9	15.1
pH (SU)	57	0	<5	0	0		6.7	8.3	8.9	10.4	12.2	12.9	15.1
	54	0	<6	0	0		6.7	7.3	7.5	7.6	7.9	8.2	8.4
	54	0	>9	0	0		6.7	7.3	7.5	7.6	7.9	8.2	8.4
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				45	54	61	67	71	80	85
Water Temperature (°C)	57	0	>29	0	0		0	3.3	7.2	12.7	20.6	23.2	25.1
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				18	18	19	22	23	27	35
TSS (mg/L)	19	8	N/A				6.2	6.2	6.2	12	21	126	190
Turbidity (NTU)	56	3	>50	4	7.1		1	1.2	1.9	4.8	11.4	46.5	160
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	78.9	9	16.4										

**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:** 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:** 01/20/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	49	0	<4	0	0		6.8	7.5	8.3	9.7	11.4	12.8	13.8
pH (SU)	48	0	<5	0	0		6.8	7.5	8.3	9.7	11.4	12.8	13.8
	48	0	<6	0	0		6.8	7.3	7.4	7.8	8.1	8.7	9
Spec. conductance (umhos/cm at 25°C)	46	0	>9	0	0		6.8	7.3	7.4	7.8	8.1	8.7	9
Water Temperature (°C)	49	0	N/A				49	56	61	67	72	77	92
	49	0	>29	0	0		1.6	4.8	9.8	17.9	24.2	27.1	28
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				18	18	19	20	22	23	23
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	12	72	121
Turbidity (NTU)	49	1	>50	2	4.1		1	1.1	2	3.4	11.5	36	65
<b>Nutrients (mg/L)</b>													
NH3 as N	50	40	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.07
NO2 + NO3 as N	50	0	N/A				0.18	0.25	0.43	0.55	0.67	0.84	0.98
TKN as N	50	11	N/A				0.2	0.2	0.2	0.26	0.32	0.44	0.98
Total Phosphorus	49	7	N/A				0.02	0.02	0.02	0.03	0.06	0.1	0.28
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
48	73.1	6	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:** 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	Max
<b>Other</b>													
Hardness (mg/L)	4	0	N/A				19	19	19	20	21	21	21

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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 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:** 01/20/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		7.8	8.4	9	10.1	12.2	13.9	14.2
pH (SU)	54	0	<5	0	0		7.8	8.4	9	10.1	12.2	13.9	14.2
	52	0	<6	0	0		6.6	7	7.3	7.6	7.8	8.1	8.6
Spec. conductance (umhos/cm at 25°C)	54	0	>9	0	0		6.6	7	7.3	7.6	7.8	8.1	8.6
Water Temperature (°C)	54	0	N/A				23	42	47	50	54	58	96
	55	0	>29	0	0		0	2.1	6	13.1	17.5	20.8	24.9
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				12	12	13	14	15	17	17
TSS (mg/L)	17	12	N/A				6.2	6.2	6.2	6.2	8.1	13.6	16
Turbidity (NTU)	54	5	>50	0	0		1	1	1.4	2.5	4.4	10.2	34
<b>Nutrients (mg/L)</b>													
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				0.85	0.85	0.85	0.85	0.85	0.85	0.85
TKN as N	1	0	N/A				0.22	0.22	0.22	0.22	0.22	0.22	0.22
Total Phosphorus	1	0	N/A				0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
50	74.1	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:** LITTLE RIV AT SR 1433 HOOKER RD NR EDWARDS CROSSROADS  
**Station #:** K9700000 **Hydrologic Unit Code:** 05050001  
**Latitude:** 36.52304 **Longitude:** -81.03806 **Stream class:** C  
**Agency:** NCAMBNT **NC stream index:** 10-9-(6)

**Time period:** 08/27/2014 to 08/27/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Other</b>													
Turbidity (NTU)	1	0	>50	0	0		1.5	1.5	1.5	1.5	1.5	1.5	1.5

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
1	210	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**

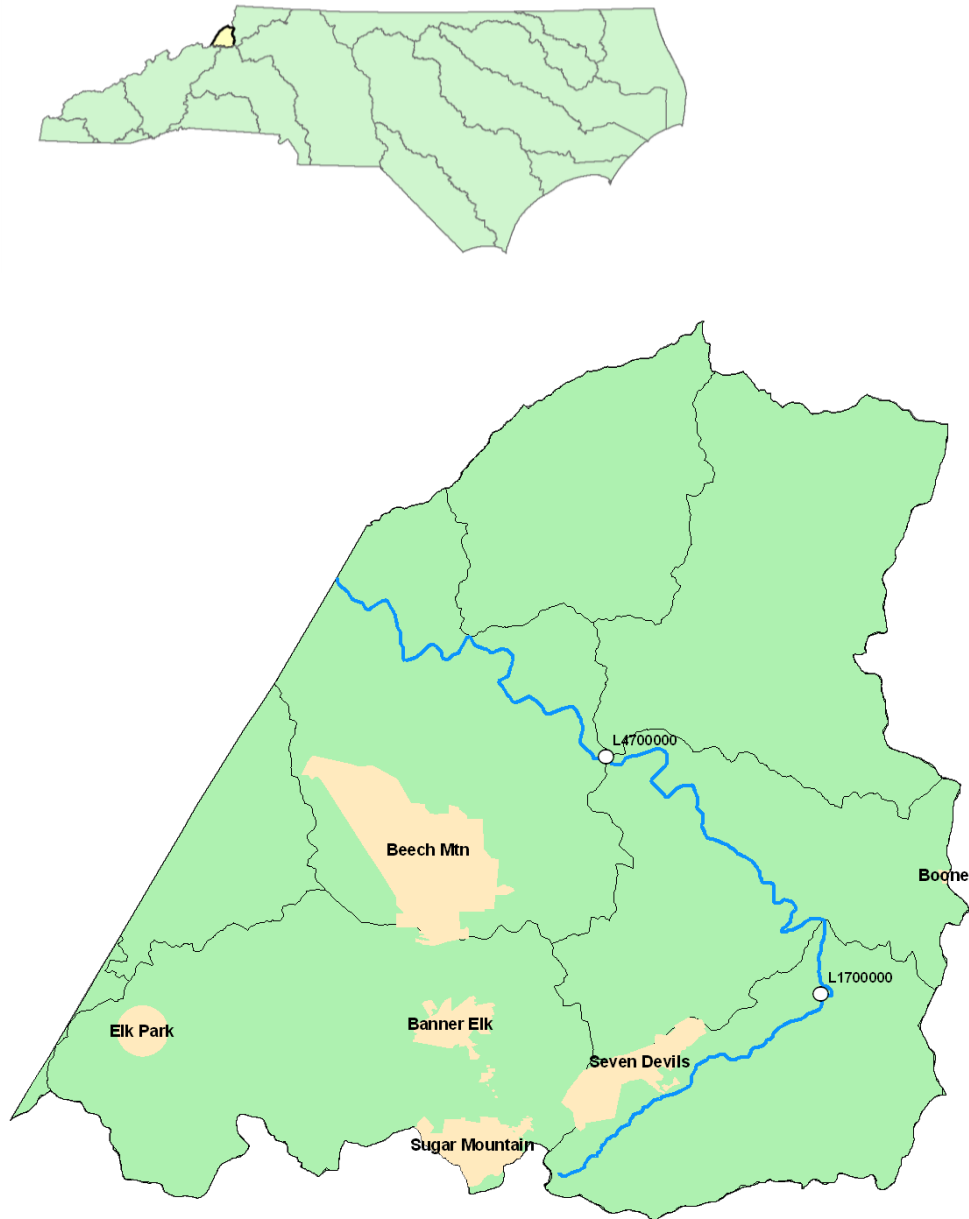


Figure WAT-1. Watauga River basin ambient monitoring station locations.

Table WAT-1. AMS monitoring stations in the Watauga River basin.

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:** 01/26/2010 to 12/03/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<6	0	0		7.4	8.3	8.8	10.2	12.2	13.8	15.4
pH (SU)	54	0	<6	0	0		6.8	7.2	7.4	7.6	7.8	8	8.7
	54	0	>9	0	0		6.8	7.2	7.4	7.6	7.8	8	8.7
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				29	38	45	49	53	61	118
Water Temperature (°C)	55	0	>20	11	20	98.1	0	3.9	7.2	15.1	19.3	21.8	23.6
	55	0	>29	0	0		0	3.9	7.2	15.1	19.3	21.8	23.6
<b>Other</b>													
Hardness (mg/L)	17	0	N/A				11	11	13	13	14	15	16
TSS (mg/L)	16	15	N/A				6.2	6.2	6.2	6.2	6.5	12	12
Turbidity (NTU)	56	11	>10	1	1.8		1	1	1.1	1.8	2.4	3.4	22
<b>Nutrients (mg/L)</b>													
NH3 as N	56	48	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	56	0	N/A				0.07	0.17	0.21	0.26	0.32	0.39	0.55
TKN as N	56	35	N/A				0.2	0.2	0.2	0.2	0.2	0.2	0.56
Total Phosphorus	56	23	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	24.3	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:** 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:** 01/26/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<6	0	0		7.9	8.6	9	10.1	12.4	13.5	14.2
pH (SU)	54	0	<6	0	0		6.9	7.3	7.5	7.7	8	8.5	8.8
	54	0	>9	0	0		6.9	7.3	7.5	7.7	8	8.5	8.8
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				42	54	68	78	88	96	116
Water Temperature (°C)	55	0	>20	16	29.1	> 99.9	-0.1	4.2	7.2	16.2	21.3	24.6	27.8
	55	0	>29	0	0		-0.1	4.2	7.2	16.2	21.3	24.6	27.8
<b>Other</b>													
Hardness (mg/L)	21	0	N/A				13	14	16	24	26	28	30
TSS (mg/L)	21	18	N/A				6.2	6.2	6.2	6.2	12	12	17
Turbidity (NTU)	56	5	>10	4	7.1		1	1	1.4	2.4	4.1	9.9	170
<b>Nutrients (mg/L)</b>													
NH3 as N	55	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	55	0	N/A				0.1	0.25	0.32	0.47	0.62	0.86	1.5
TKN as N	55	22	N/A				0.2	0.2	0.2	0.2	0.24	0.35	1.3
Total Phosphorus	55	26	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	51.2	9	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

## Pasquotank



Figure PAS-1. Pasquotank River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

Table PAS-1. AMS monitoring stations in the Pasquotank River basin.

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:** 01/20/2010 to 11/19/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	43	0	<5	0	0		5.4	7.4	8.1	9.6	10.7	11.5	12.6
pH (SU)	43	0	<6.8	5	11.6	56.7	6.2	6.4	7.2	7.5	7.9	8.4	8.9
	43	0	>8.5	3	7		6.2	6.4	7.2	7.5	7.9	8.4	8.9
Salinity (ppt)	43	0	N/A				0.08	0.32	0.99	1.6	2.75	3.56	5.74
Spec. conductance (umhos/cm at 25°C)	42	0	N/A				187	597	1762	2944	4868	6514	10151
Water Temperature (°C)	43	0	>32	0	0		5.8	7.2	10.9	19	24.6	30.3	31.2
<b>Other</b>													
TSS (mg/L)	19	10	N/A				6.2	6.2	6.2	6.2	9.8	13	14
Turbidity (NTU)	44	0	>25	0	0		3.2	3.8	5.1	6.6	7.9	12.5	16

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
44	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:** 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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	59	0	N/A				0.2	0.5	0.9	2.3	5.8	11.9
pH (SU)	59	0	<4.3	0	0		5.8	6.2	6.4	6.6	6.8	7.5
	59	0	>9	0	0		5.8	6.2	6.4	6.6	6.8	7.5
Salinity (ppt)	60	0	N/A				0.02	0.08	0.09	0.13	0.2	1.44
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				61	172	202	264	398	2660
Water Temperature (°C)	60	0	>32	0	0		0.7	4.4	8.4	16.2	23.1	27.9
<b>Other</b>												
Hardness (mg/L)	20	0	N/A				25	49	66	82	110	270
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	10.1	16
Turbidity (NTU)	60	0	>50	1	1.7		1.8	2.3	4	5.6	9.5	55
<b>Nutrients (mg/L)</b>												
NH3 as N	59	14	N/A				0.02	0.02	0.02	0.11	0.37	2.1
NO2 + NO3 as N	58	28	N/A				0.02	0.02	0.02	0.02	0.13	1.8
TKN as N	58	0	N/A				0.84	1.1	1.38	1.6	2.02	3.6
Total Phosphorus	59	0	N/A				0.04	0.08	0.14	0.32	0.48	0.94
<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
60	71.2	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:** 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:** 01/20/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	47	0	<5	0	0		7.9	8.3	8.9	9.7	11.2	12.5	13.7
pH (SU)	47	0	<6.8	0	0		7.3	7.6	7.8	8	8.2	8.7	8.9
Salinity (ppt)	47	0	>8.5	5	10.6	48.7	7.3	7.6	7.8	8	8.2	8.7	8.9
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				0.19	0.98	2.7	4.01	5.13	6.23	7.57
Water Temperature (°C)	46	0	N/A				374	1809	4975	6959	9128	11043	13163
Water Temperature (°C)	47	0	>32	0	0		4	6.8	11.2	20.1	26.6	28.4	30.1
<b>Other</b>													
TSS (mg/L)	19	7	N/A				6.2	6.2	6.2	8.5	12	26	38
Turbidity (NTU)	47	0	>25	3	6.4		1.7	3.2	4.2	5.6	8.5	20	35

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
47	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 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:** 01/20/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	46	0	<5	0	0		7.7	8.4	9.2	9.8	11.4	12.3	13.6
pH (SU)	46	0	<6.8	1	2.2		6.5	7.5	7.9	8	8.2	8.7	9.3
Salinity (ppt)	46	0	>8.5	9	19.6	96.3	6.5	7.5	7.9	8	8.2	8.7	9.3
Spec. conductance (umhos/cm at 25°C)	46	0	N/A				0.14	0.79	1.96	3.38	4.6	5.57	7.3
Water Temperature (°C)	45	0	N/A				293	1385	3562	6072	7996	10028	12705
	46	0	>32	0	0		4.3	7	10.8	19.7	24.8	28.7	30.1
<b>Other</b>													
TSS (mg/L)	15	1	N/A				6.2	7.6	10	12	15	22	22
Turbidity (NTU)	47	0	>25	2	4.3		2.8	3.7	5.7	7.5	12	18.4	28
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
47	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:** 01/20/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	49	0	<5	0	0		7.3	8.4	8.7	9.6	11.2	12.3	13.6
pH (SU)	49	0	<6.8	0	0		7.3	7.6	7.8	8	8.2	8.7	8.9
	49	0	>8.5	7	14.3	78.5	7.3	7.6	7.8	8	8.2	8.7	8.9
Salinity (ppt)	49	0	N/A				0.32	0.85	2.34	3.72	4.68	6	6.65
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				631	1562	4422	6633	8383	10772	11664
Water Temperature (°C)	49	0	>32	0	0		4.9	7	11.2	20.4	26.4	28.6	29.4

<b>Other</b>													
TSS (mg/L)	20	5	N/A				6.2	6.2	7.5	9.9	11.8	12.9	15
Turbidity (NTU)	49	0	>25	1	2		2.1	3.2	4.4	5.3	7.9	18	27

<b>Fecal Coliform Screening(#/100mL)</b>													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
49	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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<5	5	8.5		2.7	5	6.2	8	9.4	11.1	13.5
pH (SU)	59	0	<6.8	43	72.9	> 99.9	5.3	6.1	6.3	6.6	6.8	7	8.1
	59	0	>8.5	0	0		5.3	6.1	6.3	6.6	6.8	7	8.1
Salinity (ppt)	60	0	N/A				0.04	0.1	0.28	0.64	1.42	1.81	2.26
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				100	224	536	1213	2622	3327	4139
Water Temperature (°C)	60	0	>32	0	0		1.9	6.8	11.4	20.1	27.2	29.6	31.4
<b>Other</b>													
Chlorophyll a (ug/L)	59	5	>40	5	8.5		1	1	3	6	15	39	200
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	7.8	11.9	12
Turbidity (NTU)	60	0	>25	1	1.7		1.6	2.3	2.8	4.2	5.7	7.9	35
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.04	0.1	0.17	0.57
NO2 + NO3 as N	60	10	N/A				0.02	0.02	0.04	0.13	0.42	0.93	1.9
TKN as N	59	0	N/A				0.7	0.82	0.96	1.1	1.3	1.4	2
Total Phosphorus	60	0	N/A				0.06	0.06	0.08	0.11	0.18	0.24	0.44
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	42.4	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:** 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:** 01/20/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<5	0	0		7.4	8	8.3	9.4	11.4	12.5	13.8
pH (SU)	51	0	<6.8	0	0		7.1	7.3	7.8	8	8.1	8.3	8.5
	51	0	>8.5	0	0		7.1	7.3	7.8	8	8.1	8.3	8.5
Salinity (ppt)	51	0	N/A				0.04	0.21	1.15	2.5	3.08	4.09	4.5
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				106	291	2119	4584	5630	7408	8230
Water Temperature (°C)	51	0	>32	0	0		3.7	6	10.8	19.9	26.5	28.2	29
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		29	29	29	29	29	29	29
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.5	9.1	12	12
Turbidity (NTU)	52	0	>25	2	3.8		1.8	2.8	3.9	5.2	7.4	14.1	45
<b>Nutrients (mg/L)</b>													
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				0.7	0.7	0.7	0.7	0.7	0.7	0.7
Total Phosphorus	1	0	N/A				0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	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:** 01/20/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	49	0	<5	0	0		7.4	8	8.4	9.6	11.4	12.2	13.5
pH (SU)	49	0	<6.8	0	0		7	7.3	7.7	8	8.1	8.4	8.7
	49	0	>8.5	1	2		7	7.3	7.7	8	8.1	8.4	8.7
Salinity (ppt)	49	0	N/A				0.05	0.11	1.2	2	3.34	3.6	5.99
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				125	232	2147	3700	6063	6645	10750
Water Temperature (°C)	49	0	>32	0	0		5	6.8	10.8	20.3	27	28.2	28.9
<b>Other</b>													
TSS (mg/L)	18	8	N/A				6.2	6.2	6.2	7.7	12	17.2	37
Turbidity (NTU)	50	0	>25	1	2		1.8	3.6	5	6.2	7.7	13.8	34

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
49	1.4	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:** 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:** 01/20/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<5	0	0		6.6	7.8	8.3	9.5	11.3	12.4	13.6
pH (SU)	51	0	<6.8	2	3.9		5.9	7	7.6	7.9	8.2	8.3	8.8
	51	0	>8.5	1	2		5.9	7	7.6	7.9	8.2	8.3	8.8
Salinity (ppt)	51	0	N/A				0.03	0.16	1.2	1.95	2.78	3.64	4.41
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				90	234	2230	3739	5237	6613	7878
Water Temperature (°C)	51	0	>32	0	0		4	6.6	10.6	19	26.8	28.3	30.9
<b>Other</b>													
TSS (mg/L)	17	7	N/A				6.2	6.2	6.2	7	9.6	20.2	25
Turbidity (NTU)	51	0	>25	1	2		2.4	3.3	4.5	5.9	7.6	15.6	40
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	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:** 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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<5	21	35.6	> 99.9	0.5	2.6	3.8	6.3	8.2	9.7	10.7
pH (SU)	59	0	<6.8	47	79.7	> 99.9	5.2	5.8	6.1	6.4	6.7	7	7.9
	59	0	>8.5	0	0		5.2	5.8	6.1	6.4	6.7	7	7.9
Salinity (ppt)	60	0	N/A				0.03	0.07	0.09	0.13	0.25	0.42	0.72
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				46	153	206	270	498	795	1337
Water Temperature (°C)	60	0	>32	0	0		2.4	7.2	10.6	18.8	25.6	28.6	30
<b>Other</b>													
Chlorophyll a (ug/L)	60	2	>40	8	13.3	75.1	1	1	3	8	19	43	88
Hardness (mg/L)	1	0	N/A				27	27	27	27	27	27	27
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	9.4	12	21
Turbidity (NTU)	60	0	>25	7	11.7	60.5	3.4	4.5	6.9	12	17.8	26.9	80
<b>Nutrients (mg/L)</b>													
NH3 as N	60	12	N/A				0.02	0.02	0.03	0.06	0.12	0.23	0.64
NO2 + NO3 as N	60	7	N/A				0.02	0.02	0.12	0.45	1.65	2.5	3.9
TKN as N	59	0	N/A				0.51	0.76	0.94	1.1	1.6	1.8	2.8
Total Phosphorus	60	0	N/A				0.04	0.05	0.06	0.07	0.1	0.12	0.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	48.6	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:** 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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	N/A				0	0.7	1.2	2.5	6	7.9	10.1
pH (SU)	59	0	<4.3	0	0		5.3	5.8	6.1	6.3	6.5	6.6	7.1
	59	0	>9	0	0		5.3	5.8	6.1	6.3	6.5	6.6	7.1
Salinity (ppt)	60	0	N/A				0.04	0.07	0.08	0.11	0.18	0.35	1.56
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				99	155	174	228	356	688	2883
Water Temperature (°C)	60	0	>32	0	0		2.8	7.2	10.1	18.4	24.9	26.6	29.3
<b>Other</b>													
Chlorophyll a (ug/L)	59	2	>40	2	3.4		1	1	2	4	9	18	160
Hardness (mg/L)	20	0	N/A				17	52	56	66	113	177	280
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	8.8	12	13
Turbidity (NTU)	60	0	>50	0	0		1.4	2.8	4.8	8.2	13	22.7	50
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.03	0.06	0.09	0.14	0.26	0.41	0.92
NO2 + NO3 as N	60	6	N/A				0.02	0.02	0.11	0.34	1.18	1.98	2.5
TKN as N	59	0	N/A				1.1	1.2	1.3	1.5	1.8	2.1	3.3
Total Phosphorus	60	0	N/A				0.06	0.08	0.09	0.11	0.15	0.21	0.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	51.8	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:** 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:** 01/20/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	50	0	N/A				7.5	7.8	8.4	9.1	10.8	11.9	13.4
pH (SU)	50	0	<4.3	0	0		6.6	7.1	7.4	7.7	7.8	8.2	8.7
	50	0	>8.5	1	2		6.6	7.1	7.4	7.7	7.8	8.2	8.7
Salinity (ppt)	50	0	N/A				1.08	1.61	2.42	3.54	4.07	4.7	5.4
Spec. conductance (umhos/cm at 25°C)	49	0	N/A				2008	2904	4428	6455	7425	8414	9571
Water Temperature (°C)	50	0	>32	0	0		5.6	7.4	11.4	21.4	26.7	28.7	30.6
<b>Other</b>													
TSS (mg/L)	15	5	N/A				6.2	6.2	8	12	14	19.6	22
Turbidity (NTU)	49	0	>25	0	0		3.2	5.1	5.9	7.3	10.5	16	21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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

## Roanoke

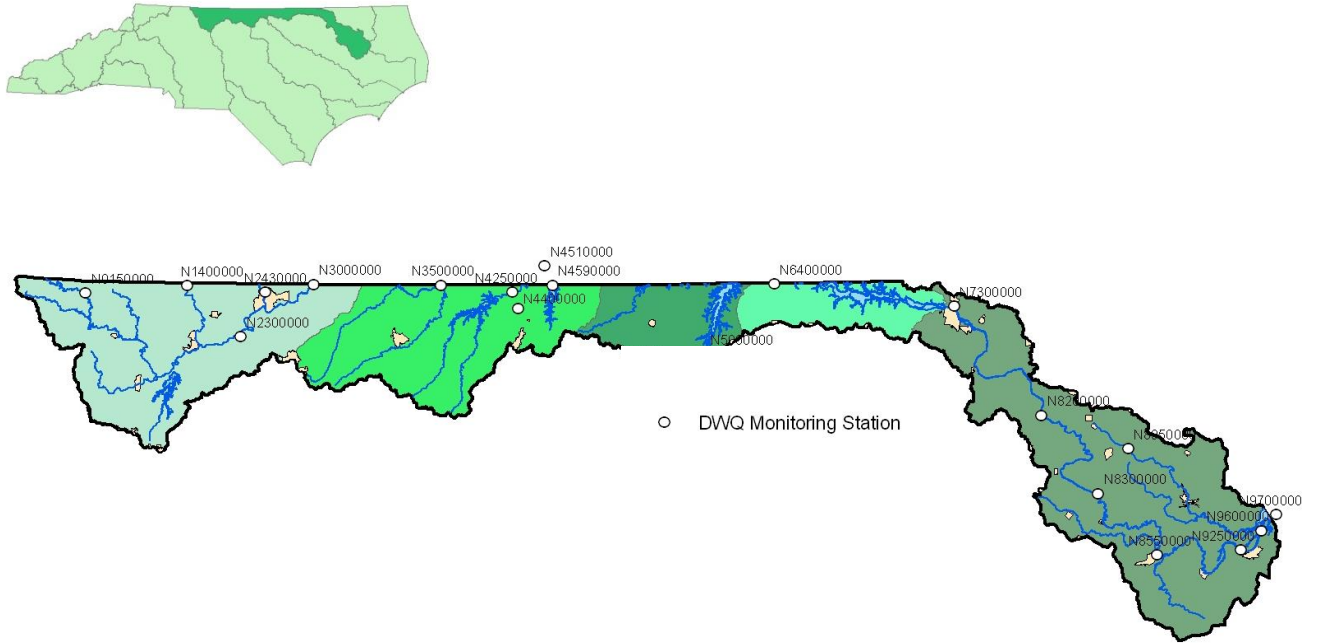


Figure ROA-1. Roanoke River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

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**Table ROA-1. AMS monitoring stations in the Roanoke River basin.**

Station	Location	Stream Class	Latitude	Longitude
<b>Dan River Headwaters: HUC 03010103</b>				
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
<b>Dan River: HUC 03010104</b>				
N3500000	Dan River at NC 57 at Va Line at Milton	C	36.5408	-79.2142
N4250000	Hyco 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	Hyco 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
<b>Kerr Reservoir: HUC 03010102</b>				
N5000000	Nutbush Creek at SR 1317 near Henderson	C	36.3691	-78.4083
<b>Lake Gaston: HUC 03010106</b>				
N6400000	Smith Creek at US 1 near Paschall	C	36.5409	-78.1951
<b>Roanoke River: HUC 03010107</b>				
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
<b>Albemarle Sound: HUC 03010205</b>				
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:** 01/04/2010 to 12/16/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<6	0	0		7.2	8.2	8.8	10.5	12.5	15.1	17.1
pH (SU)	51	0	<6	0	0		6.7	7.2	7.4	7.6	8	8.2	8.7
	51	0	>9	0	0		6.7	7.2	7.4	7.6	8	8.2	8.7
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				34	45	47	49	51	53	58
Water Temperature (°C)	112	0	>32	0	0		0	4	7	15.4	20	24.2	26.9
<b>Other</b>													
Hardness (mg/L)	22	0	N/A				14	14	15	16	16	17	17
TSS (mg/L)	22	17	N/A				6.2	6.2	6.2	6.2	6.8	8	24
Turbidity (NTU)	56	0	>10	4	7.1		1.1	1.6	2.4	3.8	5.5	8.3	350
<b>Nutrients (mg/L)</b>													
NH3 as N	55	50	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	55	0	N/A				0.14	0.23	0.29	0.42	0.47	0.53	0.57
TKN as N	55	26	N/A				0.2	0.2	0.2	0.2	0.2	0.25	1.4
Total Phosphorus	56	18	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.48
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	47.2	3	5.6										

**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:** 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:** 01/06/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	0	0		7.3	8.1	9.1	10.2	12.8	13.8	16.8
pH (SU)	48	0	<5	0	0		7.3	8.1	9.1	10.2	12.8	13.8	16.8
	52	0	<6	0	0		7	7.4	7.6	7.8	8.1	8.3	8.8
	52	0	>9	0	0		7	7.4	7.6	7.8	8.1	8.3	8.8
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				39	49	51	54	57	61	69
Water Temperature (°C)	52	0	>32	0	0		1.1	4.2	7.7	15.4	22.4	25.2	27.6
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		14	18	18	19	20	20	21
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	8.2	14	14
Turbidity (NTU)	55	0	>50	0	0		2	3.1	4.3	6.7	11	15	25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	62.8	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:** 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:** 01/06/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	53	0	<4	0	0		6.8	7.5	8	9.6	12.8	13.9	16.2
pH (SU)	53	0	<5	0	0		6.8	7.5	8	9.6	12.8	13.9	16.2
	55	0	<6	0	0		7	7.1	7.2	7.4	7.6	7.9	8.5
	55	0	>9	0	0		7	7.1	7.2	7.4	7.6	7.9	8.5
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				70	75	86	97	116	135	175
Water Temperature (°C)	55	0	>32	0	0		0.8	4.7	8	16	23.9	27.1	29.6
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		26	27	30	32	39	43	52
TSS (mg/L)	17	6	N/A				6.2	6.2	6.4	12	35.5	88.2	245
Turbidity (NTU)	55	0	>50	4	7.3		2.1	4.1	5.2	9.4	23	45	330
<b>Nutrients (mg/L)</b>													
NH3 as N	52	37	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.09
NO2 + NO3 as N	52	1	>10	0	0		0.02	0.06	0.13	0.22	0.28	0.33	0.39
TKN as N	51	13	N/A				0.2	0.2	0.2	0.22	0.29	0.37	1.3
Total Phosphorus	52	1	N/A				0.02	0.02	0.02	0.03	0.05	0.09	0.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	95.6	8	14.8										

**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:** 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:** 01/06/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		6.9	7.8	8.7	10.1	12.4	14	15.9
pH (SU)	54	0	<5	0	0		6.9	7.8	8.7	10.1	12.4	14	15.9
	57	0	<6	0	0		7.1	7.3	7.4	7.5	7.8	8.1	8.6
	57	0	>9	0	0		7.1	7.3	7.4	7.5	7.8	8.1	8.6
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				60	64	71	78	85	92	130
Water Temperature (°C)	57	0	>32	0	0		3.2	4.9	7.8	15	21.1	24	25.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		20	23	25	26	27	30	33
TSS (mg/L)	19	10	N/A				6.2	6.2	6.2	9.2	18	28	38
Turbidity (NTU)	59	0	>50	2	3.4		2.1	2.5	3.3	4.9	12	18	160
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>		<b># &gt; 400:</b>	<b>% &gt; 400:</b>		<b>%Conf:</b>							
59	67		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:** 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	Max
<b>Other</b>													
Hardness (mg/L)	4	0	>100	0	0		22	22	22	24	24	24	24

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/06/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	53	0	<4	0	0		6.8	7.4	8	9.2	12.2	13.7	16.4
pH (SU)	55	0	<5	0	0		6.8	7.4	8	9.2	12.2	13.7	16.4
	55	0	<6	0	0		7	7.2	7.3	7.5	7.7	7.9	8.4
Spec. conductance (umhos/cm at 25°C)	54	0	>9	0	0		7	7.2	7.3	7.5	7.7	7.9	8.4
Water Temperature (°C)	56	0	N/A				65	80	86	97	106	114	146
	56	0	>32	0	0		3	4.5	9.2	17.6	23.9	27.9	30.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				26	26	28	32	35	42	50
TSS (mg/L)	18	10	N/A				6.2	6.2	6.2	10.6	37.2	293	311
Turbidity (NTU)	57	0	>50	3	5.3		1.7	3.3	4.7	8.1	17.5	46	160
<b>Nutrients (mg/L)</b>													
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	0	N/A				0.4	0.4	0.4	0.4	0.4	0.4	0.4
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				0.14	0.14	0.14	0.14	0.14	0.14	0.14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	78	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:** 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:** 01/06/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	<4	0	0		5.8	6.7	7.3	8.9	11.6	13.6	16.4
	52	0	<5	0	0		5.8	6.7	7.3	8.9	11.6	13.6	16.4
pH (SU)	55	0	<6	0	0		6.9	7.3	7.4	7.6	7.8	8	8.7
	55	0	>9	0	0		6.9	7.3	7.4	7.6	7.8	8	8.7
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				58	85	96	119	140	172	749
Water Temperature (°C)	55	0	>32	0	0		2.4	4.6	9.2	18.3	24.4	28.4	31
<b>Other</b>													
Chloride (mg/L)	9	0	>230	0	0		10	10	11	13	14	15	15
Fluoride (mg/L)	9	9	>1.8	0	0		0.4	0.4	0.4	0.4	0.4	0.8	0.8
Hardness (mg/L)	17	0	N/A				27	28	30	33	36	42	46
Sulfate (mg/L)	9	0	N/A				4	4	5	6	6	7	7
TSS (mg/L)	49	8	N/A				6.2	6.2	7.6	13	25	183	547
Turbidity (NTU)	65	0	>50	6	9.2		3.1	4.1	6.4	14	24.5	58	190
<b>Nutrients (mg/L)</b>													
NH3 as N	4	0	N/A				0.04	0.04	0.04	0.04	0.06	0.06	0.06
NO2 + NO3 as N	4	0	N/A				0.32	0.32	0.32	0.32	0.34	0.34	0.34
TKN as N	4	0	N/A				0.2	0.2	0.2	0.22	0.27	0.28	0.28
Total Phosphorus	4	0	N/A				0.03	0.03	0.03	0.04	0.05	0.05	0.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	81	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:** 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:** 02/09/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	28	0	<4	0	0		5.7	6.1	7	8.4	11	13.2	14.2
pH (SU)	28	0	<5	0	0		5.7	6.1	7	8.4	11	13.2	14.2
	30	0	<6	0	0		6.5	7.1	7.3	7.4	7.5	7.7	8.2
Salinity (ppt)	30	0	>9	0	0		6.5	7.1	7.3	7.4	7.5	7.7	8.2
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				155	186	221	340	378	414	487
Water Temperature (°C)	30	0	>32	0	0		4.8	6.4	9.2	16.5	24.7	27.6	28.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				62	67	83	125	140	159	180
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.2	9.7	12
Turbidity (NTU)	30	0	>50	0	0		2	2	2.5	3.6	4.2	5.2	16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
30	2.8	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:** 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:** 02/09/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	28	0	<4	0	0		6.6	6.9	7.7	9.4	12	14.1	16.3
pH (SU)	28	0	<5	0	0		6.6	6.9	7.7	9.4	12	14.1	16.3
	30	0	<6	0	0		6.4	6.7	7	7.3	7.5	7.6	9.1
	30	0	>9	1	3.3		6.4	6.7	7	7.3	7.5	7.6	9.1
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				107	119	184	216	311	380	412
Water Temperature (°C)	30	0	>32	0	0		1.9	4.4	6.2	14.6	20.3	23.5	26.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				27	27	31	40	44	49	50
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.5	11.5	46	116
Turbidity (NTU)	30	0	>50	2	6.7		1.1	2.2	3.6	7.2	13.2	39.7	130
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
30	164.4	6	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:** 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:** 02/09/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	28	0	N/A				6	6.7	7.1	9	11.4	14	15.7
pH (SU)	30	0	N/A				5	6.9	7.2	7.3	7.5	7.7	7.9
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				99	132	186	244	321	355	377
Water Temperature (°C)	30	0	N/A				3	4.4	7.9	15.1	22.4	25.7	28.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				39	42	60	74	91	109	110
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	9.8	17.7	69
Turbidity (NTU)	30	0	N/A				1.9	2.3	3.2	6.7	19.5	38.6	80
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	95.2	4	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:** 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:** 02/09/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	28	0	<4	0	0		5.7	6.5	7.2	8.8	11.1	11.8	15.8
pH (SU)	28	0	<5	0	0		5.7	6.5	7.2	8.8	11.1	11.8	15.8
	30	0	<6	0	0		6.6	7	7.2	7.4	7.5	7.7	7.7
	30	0	>9	0	0		6.6	7	7.2	7.4	7.5	7.7	7.7
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				151	193	268	302	344	350	353
Water Temperature (°C)	30	0	>32	0	0		5	5.8	9.1	16.2	24	27	29
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				53	59	85	100	118	130	130
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	11.8	12
Turbidity (NTU)	30	8	>50	0	0		1	1	1	1.3	1.8	2.1	2.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
30	16	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:** 02/10/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	27	0	<4	0	0		5.3	7.1	7.6	8.8	11.5	13.2	15
pH (SU)	31	0	<6	0	0		5.3	7.1	7.6	8.8	11.5	13.2	15
Salinity (ppt)	1	0	N/A				6.4	6.6	7.2	7.5	7.8	7.9	8
Spec. conductance (umhos/cm at 25°C)	31	0	>9	0	0		6.4	6.6	7.2	7.5	7.8	7.9	8
Water Temperature (°C)	31	0	N/A				0	0	0	0	0	0	0
	31	0	>32	0	0		54	190	335	475	588	688	785
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				4.2	5.7	8.6	14.8	20.4	22.4	25
TSS (mg/L)	20	17	N/A				52	69	100	135	178	208	210
Turbidity (NTU)	31	1	>50	2	6.5		6.2	6.2	6.2	6.2	12	39.5	146
							1	1.1	1.6	3.1	11	29	750
<b>Nutrients (mg/L)</b>													
NH3 as N	31	20	N/A				0.02	0.02	0.02	0.02	0.03	0.08	0.83
NO2 + NO3 as N	31	0	N/A				0.81	4.12	6.8	14	16	20.8	25
TKN as N	30	1	N/A				0.2	0.4	0.57	0.65	0.75	1.2	3.8
Total Phosphorus	30	0	N/A				0.07	0.09	0.18	0.34	0.5	0.93	1.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	301.3	8	27.6	79									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 02/10/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	28	0	<4	2	7.1		3	4.1	4.9	5.8	9.2	12.4	14.8
pH (SU)	28	0	<5	7	25	98.2	3	4.1	4.9	5.8	9.2	12.4	14.8
	31	0	<6	0	0		6.1	6.2	6.5	6.8	7.1	7.4	7.7
Salinity (ppt)	31	0	>9	0	0		6.1	6.2	6.5	6.8	7.1	7.4	7.7
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				61	71	75	86	109	130	180
Water Temperature (°C)	31	0	>32	0	0		1.3	3.5	7.1	15.6	22	23.8	24.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				15	17	20	28	38	59	69
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	12	13.8	20
Turbidity (NTU)	31	0	>50	2	6.5		3.5	3.6	6.2	9.5	19	43.6	70
<b>Nutrients (mg/L)</b>													
NH3 as N	31	20	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.48
NO2 + NO3 as N	29	22	N/A				0.02	0.02	0.02	0.02	0.02	0.14	0.28
TKN as N	31	0	N/A				0.29	0.3	0.36	0.43	0.59	0.76	1.2
Total Phosphorus	30	0	N/A				0.02	0.03	0.05	0.07	0.1	0.19	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	53.4	1	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:** 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:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		4.2	5.7	7.4	9	11.8	13	13.6
pH (SU)	30	0	<5	1	3.3		4.2	5.7	7.4	9	11.8	13	13.6
	31	0	<6	0	0		6.7	6.9	7.1	7.3	7.5	7.7	7.8
Salinity (ppt)	31	0	>9	0	0		6.7	6.9	7.1	7.3	7.5	7.7	7.8
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				27	94	100	107	112	117	122
Water Temperature (°C)	31	0	>32	0	0		3.8	5.6	8.7	15.7	23.4	27.8	29
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		33	33	35	36	37	38	40
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	11.5	12
Turbidity (NTU)	31	2	>50	0	0		1	1.7	2.3	3	3.7	12	31
<b>Nutrients (mg/L)</b>													
NH3 as N	31	22	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	31	4	>10	0	0		0.02	0.02	0.04	0.08	0.17	0.25	0.29
TKN as N	31	0	N/A				0.2	0.22	0.27	0.3	0.36	0.39	0.46
Total Phosphorus	31	9	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.06
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	6.9	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:** 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:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		5.9	6.4	7.6	9.2	11.3	12.9	13.6
pH (SU)	31	0	<6	0	0		5.9	6.4	7.6	9.2	11.3	12.9	13.6
Salinity (ppt)	1	0	N/A	0	0		6.3	6.8	7.1	7.2	7.5	7.6	7.7
Spec. conductance (umhos/cm at 25°C)	31	0	N/A	0	0		6.3	6.8	7.1	7.2	7.5	7.6	7.7
Water Temperature (°C)	31	0	>32	0	0		0	0	0	0	0	0	0
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				92	102	110	119	125	137	143
TSS (mg/L)	20	1	N/A				3.8	6	9	15.8	23.4	28.1	30.5
Turbidity (NTU)	31	0	>50	0	0		33	34	35	36	39	41	43
<b>Nutrients (mg/L)</b>													
NH3 as N	30	13	N/A				6.2	6.6	9.6	13.5	19	56	96
NO2 + NO3 as N	30	0	N/A				5.1	5.9	6.9	10	14	29	40
TKN as N	30	0	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.05
Total Phosphorus	30	0	N/A				0.02	0.08	0.12	0.14	0.22	0.29	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	46.8	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:** 01/07/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	2	3.3		3.2	5.8	6.7	8.2	10.7	11.4	11.9
pH (SU)	60	0	<5	4	6.7		3.2	5.8	6.7	8.2	10.7	11.4	11.9
	57	0	<6	5	8.8		5.3	6	6.6	6.8	7	7.1	7.9
Salinity (ppt)	57	0	>9	0	0		5.3	6	6.6	6.8	7	7.1	7.9
	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)	59	0	N/A				85	97	107	115	127	133	143
Water Temperature (°C)	60	0	>32	0	0		3.2	6.3	10.5	17.4	25.7	28.8	30.7
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				31	33	34	36	37	39	41
TSS (mg/L)	20	2	N/A				6.2	7	12	16	20.8	24.9	26
Turbidity (NTU)	59	0	>50	0	0		6.8	8.7	11	15	19	21	38
<b>Nutrients (mg/L)</b>													
NH3 as N	60	37	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	0.19	0.25	0.28	0.33
TKN as N	58	0	N/A				0.25	0.28	0.32	0.38	0.43	0.48	0.61
Total Phosphorus	59	0	N/A				0.02	0.04	0.04	0.05	0.07	0.08	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	21.3	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:** 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:** 01/07/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	N/A				0	0.9	2	3.6	7.2	10.3	12.1
pH (SU)	57	0	<4.3	1	1.8		4	5.2	5.6	5.8	6.1	6.5	7
	57	0	>9	0	0		4	5.2	5.6	5.8	6.1	6.5	7
Salinity (ppt)	60	0	N/A				0.01	0.02	0.02	0.03	0.04	0.06	0.31
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				56	68	74	86	103	140	612
Water Temperature (°C)	60	0	>32	0	0		0.1	4.6	8.7	15	22.8	24.6	27.2
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				12	17	22	28	35	38	50
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	12	23.9	35
Turbidity (NTU)	59	0	>50	1	1.7		1.3	2.6	3.7	7.8	16	34	55
<b>Nutrients (mg/L)</b>													
NH3 as N	59	29	N/A				0.02	0.02	0.02	0.02	0.13	0.35	4
NO2 + NO3 as N	53	36	N/A				0.02	0.02	0.02	0.02	0.04	0.12	0.23
TKN as N	58	0	N/A				0.47	0.54	0.68	1.2	1.62	2.22	6
Total Phosphorus	58	0	N/A				0.04	0.06	0.12	0.29	0.42	0.74	1.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	78.5	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:** 01/11/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	N/A				2	4.3	6.4	7.7	9.3	11.3	12.2
pH (SU)	51	0	<4.3	0	0		5.8	6.4	6.7	7	7.2	7.5	8.2
	51	0	>9	0	0		5.8	6.4	6.7	7	7.2	7.5	8.2
Salinity (ppt)	51	0	N/A				0.03	0.04	0.04	0.05	0.05	0.05	0.1
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				85	101	105	113	122	126	144
Water Temperature (°C)	51	0	>32	0	0		1.8	7.2	10.6	18.7	26.7	30.2	32
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				31	32	33	35	36	40	41
TSS (mg/L)	18	9	N/A				6.2	6.2	6.2	7	12	13.2	15
Turbidity (NTU)	51	0	>50	0	0		4.4	5	7	8.5	13	16.8	21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	12	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:** 01/11/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	N/A				2.1	4.5	6	7.4	9.6	11.4	12.3
pH (SU)	52	0	<4.3	0	0		6.2	6.8	7	7.2	7.5	7.6	8.7
	52	0	>9	0	0		6.2	6.8	7	7.2	7.5	7.6	8.7
Salinity (ppt)	52	0	N/A				0.04	0.05	0.05	0.06	0.08	0.1	0.23
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				95	114	120	140	178	198	463
Water Temperature (°C)	52	0	>32	1	1.9		2	7.3	11.1	19.6	27	29.5	33
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				33	33	36	38	40	42	53
TSS (mg/L)	18	9	N/A				6.2	6.2	6.2	8.2	11.2	12.1	13
Turbidity (NTU)	52	0	>50	0	0		3.8	5.6	7.3	9.4	14.8	17	21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	16.1	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:** 01/11/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	<5	0	0		5.5	7	7.8	8.8	10.5	11.7	13.1
pH (SU)	52	0	<6.8	1	1.9		6.4	7	7.2	7.5	7.7	8	8.6
	52	0	>8.5	1	1.9		6.4	7	7.2	7.5	7.7	8	8.6
Salinity (ppt)	52	0	N/A				0.03	0.04	0.05	0.1	0.38	1.21	2.07
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				96	110	120	219	744	2270	3810
Water Temperature (°C)	52	0	>32	0	0		1.9	7.1	10.2	18.8	26.4	29.6	30.3
<b>Other</b>													
TSS (mg/L)	19	13	N/A				6.2	6.2	6.2	6.2	9	16	24
Turbidity (NTU)	52	0	>25	2	3.8		2.4	3.2	4.8	6.4	13	17.7	30
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	4.7	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

## Tar-Pamlico

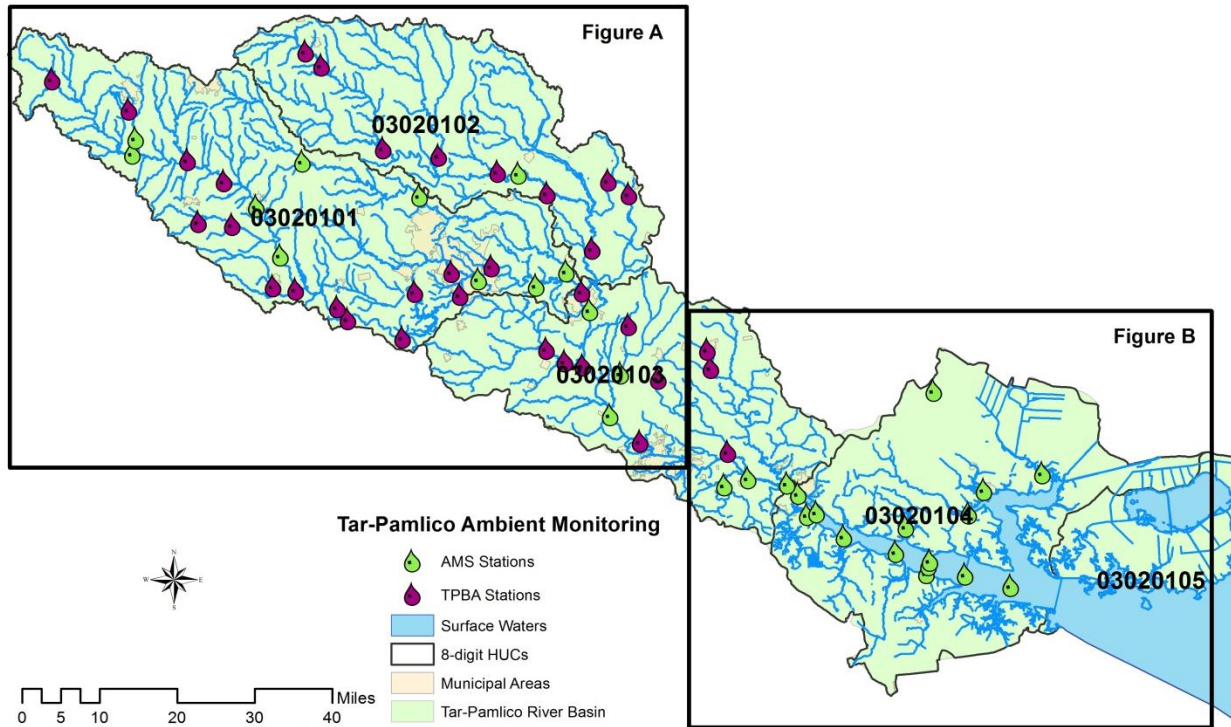
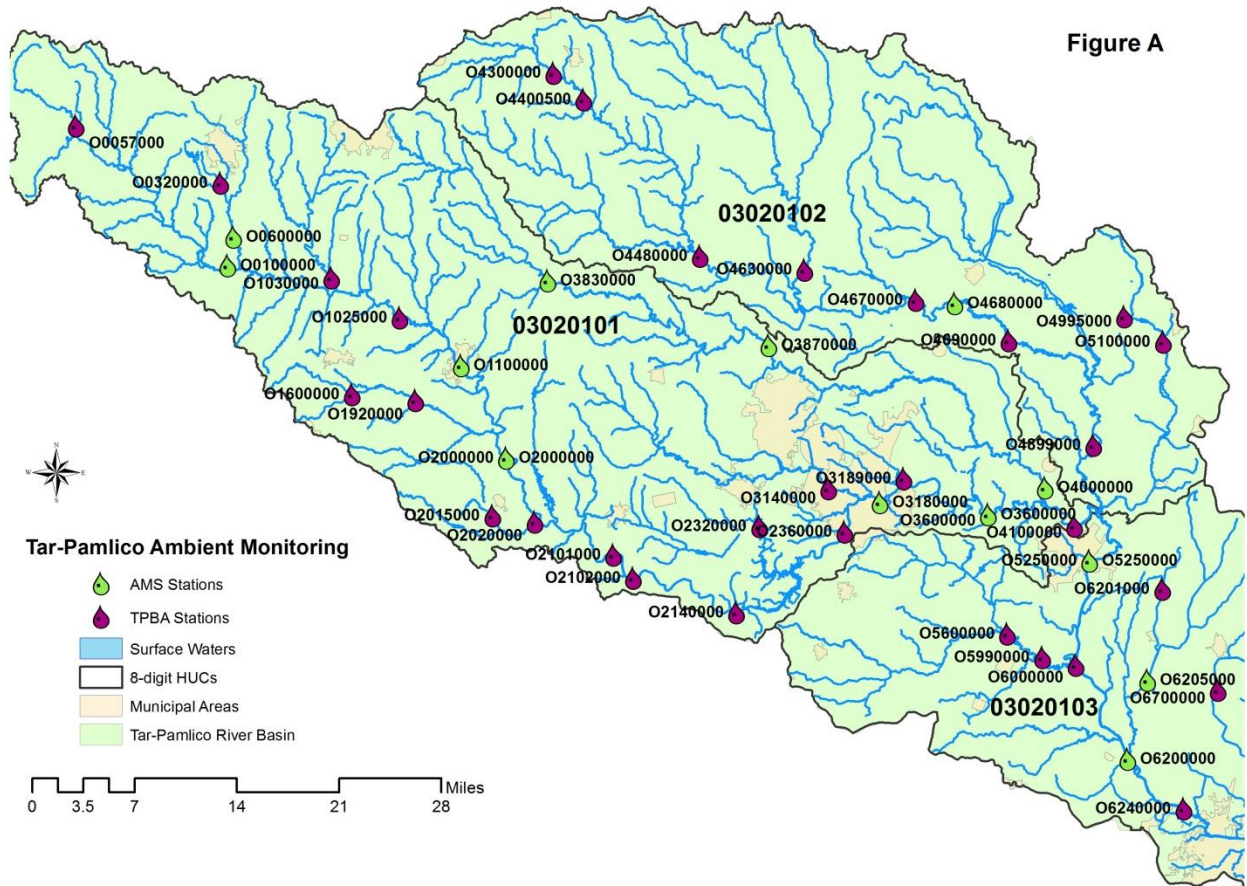
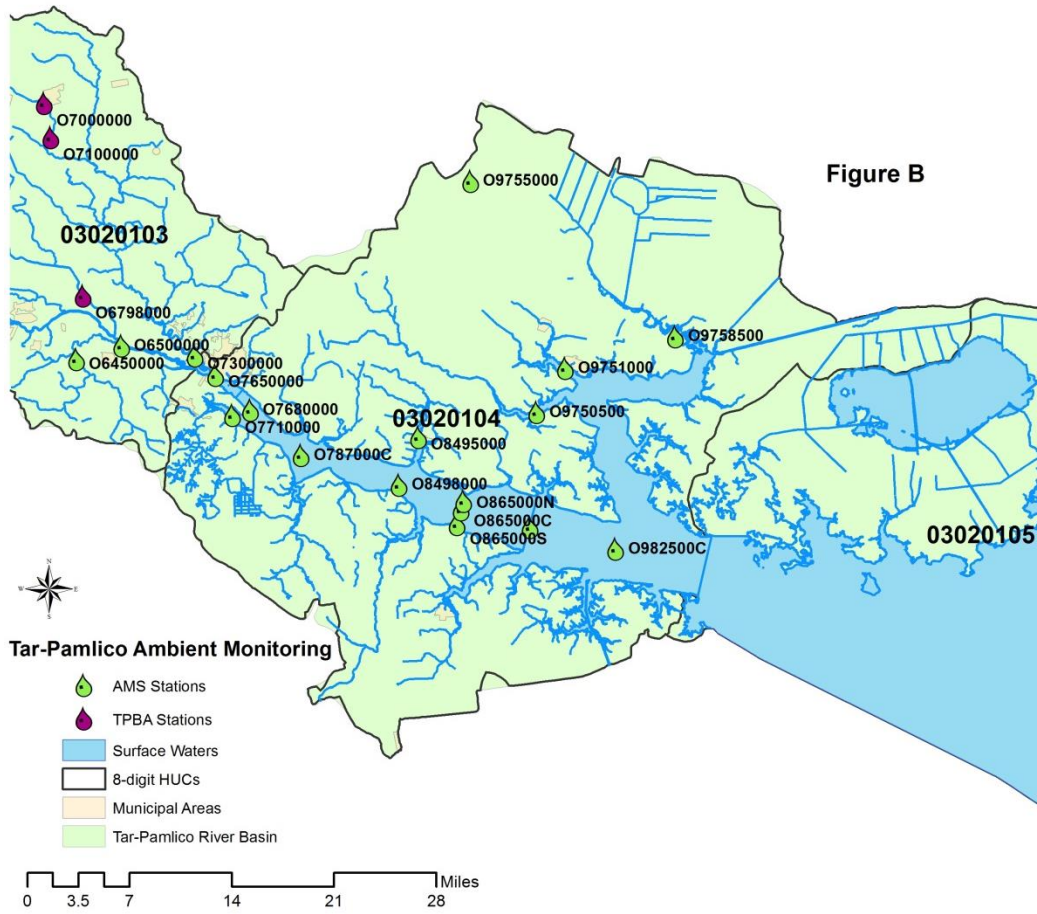


Figure TAR-1. Tar-Pamlico River basin ambient monitoring station locations (see details below).





NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

Table TAR-1. Ambient monitoring stations in the Tar-Pamlico River basin.

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

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 BERA

**Station #:** O0057000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.33412

**Longitude:** -78.76803

**Stream class:** WS-IV NSW

**Agency:** TPBA

**NC stream index:** 28-(1)

**Time period:** 01/29/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	78	0	<4	3	3.8		2	4.6	6.5	7.5	10.2	11.7	17
	78	0	<5	9	11.5	62.1	2	4.6	6.5	7.5	10.2	11.7	17
pH (SU)	78	0	<6	14	17.9	97.8	2.2	4.8	6.2	6.8	7	7.3	8.9
	78	0	>9	0	0		2.2	4.8	6.2	6.8	7	7.3	8.9
Spec. conductance (umhos/cm at 25°C)	76	1	N/A				50	58	67	81	90	100	161
Water Temperature (°C)	78	0	>32	0	0		0.6	6	10.6	19.4	22.4	23.9	25.9
<b>Other</b>													
TSS (mg/L)	56	23	N/A				2.8	3.1	3.1	3.6	6	17.9	305
Turbidity (NTU)	56	0	>50	2	3.6		2.4	4.6	6.3	11	17.8	28.6	550
<b>Nutrients (mg/L)</b>													
NH3 as N	56	5	N/A				0.02	0.02	0.03	0.04	0.07	0.11	0.24
NO2 + NO3 as N	56	3	>10	0	0		0.01	0.03	0.05	0.1	0.19	0.3	0.51
TKN as N	56	1	N/A				0.2	0.32	0.46	0.66	0.89	1.21	1.94
Total Phosphorus	53	13	N/A				0.02	0.02	0.02	0.04	0.05	0.08	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	71.7	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:** TAR RIV AT NC 96 NR TAR RIVER

**Station #:** O0100000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.19472

**Longitude:** -78.58292

**Stream class:** WS-V NSW

**Agency:** NCAMBNT

**NC stream index:** 28-(5.7)

**Time period:** 02/09/2010 to 12/17/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	28	0	<4	0	0		4.9	5.1	6	6.7	10.9	12.5	14.9
pH (SU)	28	0	<5	1	3.6		4.9	5.1	6	6.7	10.9	12.5	14.9
	30	0	<6	0	0		6.3	6.5	6.8	7	7.3	7.5	7.8
Salinity (ppt)	30	0	>9	0	0		6.3	6.5	6.8	7	7.3	7.5	7.8
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				51	68	76	83	93	108	236
Water Temperature (°C)	30	0	>32	0	0		3.7	4.5	6.4	16	23.5	26	30.3
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		17	25	26	31	34	41	49
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	11.5	24.3	53
Turbidity (NTU)	30	0	>50	2	6.7		2.4	3.5	6.5	13.5	26	48.8	90
<b>Nutrients (mg/L)</b>													
NH3 as N	30	17	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.13
NO2 + NO3 as N	30	8	>10	0	0		0.02	0.02	0.02	0.07	0.16	0.24	0.36
TKN as N	30	0	N/A				0.26	0.31	0.38	0.52	0.62	0.9	1.3
Total Phosphorus	30	0	N/A				0.02	0.03	0.04	0.04	0.07	0.13	0.16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
30	89.2	6	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:** 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:** 01/29/2010 to 01/29/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles					
				#	%	%Conf	Min	10th	25th	50th	75th	90th
<b>Field</b>												
D.O. (mg/L)	1	0	<4	0	0		9.1	9.1	9.1	9.1	9.1	9.1
pH (SU)	1	0	<5	0	0		9.1	9.1	9.1	9.1	9.1	9.1
	1	0	<6	0	0		6.8	6.8	6.8	6.8	6.8	6.8
	1	0	>9	0	0		6.8	6.8	6.8	6.8	6.8	6.8
Spec. conductance (umhos/cm at 25°C)	1	0	N/A				124	124	124	124	124	124
Water Temperature (°C)	1	0	>32	0	0		5.5	5.5	5.5	5.5	5.5	5.5
<b>Other</b>												
Turbidity (NTU)	1	0	>50	0	0		19	19	19	19	19	19
<b>Nutrients (mg/L)</b>												
NH3 as N	1	0	N/A				0.03	0.03	0.03	0.03	0.03	0.03
NO2 + NO3 as N	1	0	N/A				0.51	0.51	0.51	0.51	0.51	0.51
TKN as N	1	0	N/A				0.82	0.82	0.82	0.82	0.82	0.82
Total Phosphorus	1	0	N/A				0.05	0.05	0.05	0.05	0.05	0.05

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
1	110	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 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 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	83	0	<4	0	0		6.1	6.4	6.9	7.5	9.8	12.3	13.7
pH (SU)	83	0	<5	0	0		6.1	6.4	6.9	7.5	9.8	12.3	13.7
	83	0	<6	3	3.6		5.1	6.7	7.1	7.3	7.5	7.8	8.6
Spec. conductance (umhos/cm at 25°C)	83	0	>9	0	0		5.1	6.7	7.1	7.3	7.5	7.8	8.6
Water Temperature (°C)	83	0	N/A				87	133	173	230	303	525	684
	83	0	>32	0	0		0.8	6.4	11.4	19.3	22.5	23.8	26.4
<b>Other</b>													
Turbidity (NTU)	58	0	>50	3	5.2		1.7	2.2	3.6	7.8	19.5	37.4	280
<b>Nutrients (mg/L)</b>													
NH3 as N	58	8	N/A				0.01	0.02	0.03	0.05	0.07	0.11	0.62
NO2 + NO3 as N	58	0	N/A				0.07	0.2	0.28	0.48	0.72	2.91	4.28
TKN as N	58	0	N/A				0.24	0.38	0.52	0.8	1.08	1.4	2.86
Total Phosphorus	53	1	N/A				0.02	0.05	0.06	0.08	0.16	0.36	0.74
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	124.6	14	24.1	73.9									

**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 1643 NR CLAY

**Station #:** O0600000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.22317      **Longitude:** -78.57568

**Stream class:** C NSW

**Agency:** NCAMBNT

**NC stream index:** 28-11

**Time period:** 02/09/2010 to 12/17/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		5.5	6.5	7.5	8.9	11.3	13.8	15
pH (SU)	30	0	<5	0	0		5.5	6.5	7.5	8.9	11.3	13.8	15
	32	0	<6	0	0		6.4	7	7.2	7.4	7.7	7.9	8.2
	32	0	>9	0	0		6.4	7	7.2	7.4	7.7	7.9	8.2
Salinity (ppt)	2	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				63	95	139	193	326	450	667
Water Temperature (°C)	32	0	>32	0	0		3.4	4.2	6.4	15.2	21.7	25.3	27.9
<b>Other</b>													
Hardness (mg/L)	21	0	N/A				28	29	41	51	58	62	67
TSS (mg/L)	21	15	N/A				6.2	6.2	6.2	6.2	11.5	44.6	54
Turbidity (NTU)	31	0	>50	3	9.7		1	2.4	3.8	6.7	22	63.6	120
<b>Nutrients (mg/L)</b>													
NH3 as N	31	17	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.62
NO2 + NO3 as N	31	0	N/A				0.05	0.15	0.32	0.46	0.72	1.38	1.6
TKN as N	31	0	N/A				0.38	0.4	0.44	0.54	0.68	0.95	1.2
Total Phosphorus	31	0	N/A				0.04	0.04	0.06	0.08	0.13	0.15	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	122.1	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:** FISHING CRK AT SR 1643 NR CLAY

**Station #:** O0600000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.22317      **Longitude:** -78.57568

**Stream class:** C NSW

**Agency:** NCS PST

**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
<b>Other</b>													
Hardness (mg/L)	4	0	N/A				57	57	57	58	60	60	60

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/29/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	74	0	<4	0	0		5.7	6.5	6.9	7.8	10.2	12	14.9
pH (SU)	74	0	<5	0	0		5.7	6.5	6.9	7.8	10.2	12	14.9
	74	0	<6	2	2.7		4.8	6.5	6.8	7	7.2	7.4	7.8
	74	0	>9	0	0		4.8	6.5	6.8	7	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	74	1	N/A				50	78	94	106	118	128	154
Water Temperature (°C)	74	0	>32	0	0		0.2	5.2	10.2	20.8	24.2	26	28.6
<b>Other</b>													
TSS (mg/L)	53	13	N/A				3.1	3.1	3.3	5.5	16	21.6	40
Turbidity (NTU)	54	0	>50	1	1.9		4.2	5.1	6.5	11	24	33	85
<b>Nutrients (mg/L)</b>													
NH3 as N	54	6	N/A				0.01	0.02	0.03	0.05	0.07	0.11	0.17
NO2 + NO3 as N	54	3	>10	0	0		0.02	0.04	0.07	0.1	0.18	0.23	0.38
TKN as N	54	0	N/A				0.27	0.34	0.42	0.55	0.74	1.06	1.34
Total Phosphorus	49	3	N/A				0.02	0.03	0.04	0.05	0.08	0.09	0.18
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	90.7	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:** 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:** 01/29/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<4	8	9.8		1.5	4	5.4	6.9	9	11.2	14.3
pH (SU)	82	0	<5	17	20.7	99.7	1.5	4	5.4	6.9	9	11.2	14.3
	82	0	<6	3	3.7		3.6	6.4	6.6	6.9	7.1	7.2	7.9
Spec. conductance (umhos/cm at 25°C)	82	0	>9	0	0		3.6	6.4	6.6	6.9	7.1	7.2	7.9
Water Temperature (°C)	82	0	N/A				52	91	106	116	127	140	168
	82	0	>32	0	0		0.2	5.8	11	20.2	23	24.3	26.2
<b>Other</b>													
TSS (mg/L)	57	10	N/A				3.1	3.1	4	7.9	19	38.4	57
Turbidity (NTU)	57	0	>50	2	3.5		4.8	6.8	8.2	11	21	40.2	65
<b>Nutrients (mg/L)</b>													
NH3 as N	57	3	N/A				0.01	0.03	0.05	0.07	0.1	0.13	0.24
NO2 + NO3 as N	57	3	N/A				0.02	0.03	0.06	0.1	0.16	0.21	0.4
TKN as N	57	2	N/A				0.2	0.34	0.46	0.58	0.86	1.15	2.55
Total Phosphorus	52	7	N/A				0.02	0.02	0.03	0.05	0.07	0.1	0.18
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	82	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 401 AT LOUISBURG

**Station #:** O1100000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.09438      **Longitude:** -78.29766

**Stream class:** WS-V NSW

**Agency:** NCAMBNT

**NC stream index:** 28-(24.7)

**Time period:** 02/10/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	29	0	<4	0	0		5.6	6.3	6.8	8.4	11.4	12.3	14.2
pH (SU)	29	0	<5	0	0		5.6	6.3	6.8	8.4	11.4	12.3	14.2
	31	0	<6	0	0		6.6	6.6	6.8	7.1	7.3	7.4	7.6
	31	0	>9	0	0		6.6	6.6	6.8	7.1	7.3	7.4	7.6
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				63	71	86	104	111	120	151
Water Temperature (°C)	31	0	>32	0	0		2.3	4.8	7.2	15.1	23.8	24.8	29.9
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		18	24	29	32	33	35	35
TSS (mg/L)	20	8	N/A				6.2	6.2	6.4	9.6	14.2	31.9	240
Turbidity (NTU)	31	0	>50	2	6.5		3.8	6.3	8.8	14	20	46.6	200
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	102.8	2	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:** 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:** 01/29/2010 to 11/06/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	77	0	<4	0	0		6	6.7	7	7.5	9.7	11.2	14
pH (SU)	77	0	<5	0	0		6	6.7	7	7.5	9.7	11.2	14
	77	0	<6	0	0		6.3	6.5	6.8	7	7.2	7.4	7.7
	77	0	>9	0	0		6.3	6.5	6.8	7	7.2	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				52	72	79	83	88	92	120
Water Temperature (°C)	77	0	>32	0	0		2.3	7.3	12	21.2	24.7	25.9	28.7
<b>Other</b>													
Turbidity (NTU)	52	0	>50	0	0		5.3	6.4	7.6	10	15.8	31.1	50
<b>Nutrients (mg/L)</b>													
NH3 as N	52	0	N/A				0.02	0.04	0.05	0.08	0.12	0.17	1.27
NO2 + NO3 as N	52	0	N/A				0.05	0.08	0.12	0.16	0.23	0.34	0.47
TKN as N	52	1	N/A				0.2	0.34	0.44	0.54	0.74	0.87	1.69
Total Phosphorus	50	7	N/A				0.02	0.02	0.03	0.04	0.06	0.08	0.19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	76.5	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:** 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:** 01/29/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	77	0	<4	0	0		5.3	6.7	7.2	7.7	9.6	11.3	14.2
pH (SU)	77	0	<5	0	0		5.3	6.7	7.2	7.7	9.6	11.3	14.2
	77	0	<6	0	0		6.3	6.8	7	7.2	7.4	7.5	7.9
	77	0	>9	0	0		6.3	6.8	7	7.2	7.4	7.5	7.9
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				78	158	208	282	395	450	813
Water Temperature (°C)	77	0	>32	0	0		1.4	6.9	11.6	21.1	24.2	25.8	27.9
<b>Other</b>													
Turbidity (NTU)	53	0	>50	3	5.7		6.7	9.3	12	16	24.5	37.2	210
<b>Nutrients (mg/L)</b>													
NH3 as N	53	1	N/A				0.02	0.04	0.05	0.08	0.1	0.17	0.21
NO2 + NO3 as N	53	0	N/A				0.24	0.35	0.42	0.55	0.82	1.38	1.63
TKN as N	53	1	N/A				0.2	0.42	0.54	0.73	0.98	1.24	1.77
Total Phosphorus	50	2	N/A				0.02	0.04	0.06	0.07	0.1	0.14	0.39
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	134.4	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:** TAR RIV AT SR 1001 NR BUNN

**Station #:** O2000000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.00228

**Longitude:** -78.24334

**Stream class:** WS-V NSW

**Agency:** NCAMBNT

**NC stream index:** 28-(24.7)

**Time period:** 02/10/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	29	0	<4	0	0		4.1	5.6	6.1	7.4	11.2	12	13.8
	29	0	<5	1	3.4		4.1	5.6	6.1	7.4	11.2	12	13.8
pH (SU)	31	0	<6	0	0		6.5	6.7	6.8	7.1	7.1	7.4	7.6
	31	0	>9	0	0		6.5	6.7	6.8	7.1	7.1	7.4	7.6
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				55	86	96	114	132	159	185
Water Temperature (°C)	31	0	>32	0	0		2.6	5.5	7.6	15.4	23.8	24.8	29
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		18	25	28	31	33	35	35
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	9.4	16.8	42.5	511
Turbidity (NTU)	31	0	>50	2	6.5		5.6	7.7	9	14	20	39.2	360
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	101.6	2	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:** TAR RIV AT SR 1001 NR BUNN

**Station #:** O2000000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.00228

**Longitude:** -78.24334

**Stream class:** WS-V NSW

**Agency:** TPBA

**NC stream index:** 28-(24.7)

**Time period:** 01/29/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4	5.1	5.7	6.5	9.2	11.5	14.9
pH (SU)	85	0	<5	5	5.9		4	5.1	5.7	6.5	9.2	11.5	14.9
	85	0	<6	4	4.7		5.2	6.4	6.7	7	7.1	7.3	8
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.2	6.4	6.7	7	7.1	7.3	8
Water Temperature (°C)	85	0	N/A				55	83	102	116	130	147	162
	85	0	>32	0	0		0.5	6.4	11.8	22	25	27.2	29.2
<b>Other</b>													
Turbidity (NTU)	60	0	>50	1	1.7		6.9	7.9	9.9	14	23.8	40	100
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.03	0.05	0.07	0.09	0.12	0.16
NO2 + NO3 as N	60	0	>10	0	0		0.05	0.1	0.12	0.17	0.24	0.31	0.47
TKN as N	60	2	N/A				0.2	0.39	0.5	0.68	0.89	1.03	1.61
Total Phosphorus	55	4	N/A				0.02	0.03	0.04	0.06	0.08	0.1	0.21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	90.7	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:** 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:** 01/29/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	31	36.5	> 99.9	0.1	1.8	2.9	5.2	7.5	10.7	14
pH (SU)	85	0	<5	40	47.1	> 99.9	0.1	1.8	2.9	5.2	7.5	10.7	14
	85	0	<6	1	1.2		5.9	6.3	6.5	6.7	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		5.9	6.3	6.5	6.7	6.9	7.1	7.3
Water Temperature (°C)	84	0	N/A				51	58	64	75	86	106	126
	85	0	>32	0	0		2.1	7.7	14.2	23	26.8	28.3	30.6
<b>Other</b>													
Turbidity (NTU)	60	0	>50	0	0		2.4	3.4	4.4	7	9.5	15.9	24
<b>Nutrients (mg/L)</b>													
NH3 as N	60	7	N/A				0.01	0.02	0.03	0.05	0.07	0.12	0.2
NO2 + NO3 as N	60	38	N/A				0.01	0.01	0.02	0.02	0.04	0.08	0.3
TKN as N	60	1	N/A				0.2	0.33	0.5	0.69	0.97	1.12	1.62
Total Phosphorus	55	4	N/A				0.02	0.03	0.04	0.06	0.08	0.11	0.19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	87.8	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:** 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:** 01/29/2010 to 12/15/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	14	16.7	96.1	1.6	3.6	4.4	6.2	8.4	11.4	13.6
pH (SU)	84	0	<5	25	29.8	>99.9	1.6	3.6	4.4	6.2	8.4	11.4	13.6
	84	0	<6	1	1.2		5.9	6.4	6.6	6.8	7	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		5.9	6.4	6.6	6.8	7	7.1	7.4
Water Temperature (°C)	83	1	N/A				50	63	71	80	91	111	135
	84	0	>32	0	0		2.7	8.2	13.6	23.6	27.8	29.7	31.6
<b>Other</b>													
Turbidity (NTU)	60	0	>50	1	1.7		4.5	5.4	6.6	9	12.8	15.9	100
<b>Nutrients (mg/L)</b>													
NH3 as N	60	5	N/A				0.01	0.02	0.04	0.07	0.13	0.19	0.62
NO2 + NO3 as N	60	20	N/A				0.01	0.01	0.02	0.04	0.07	0.14	0.32
TKN as N	60	0	N/A				0.22	0.38	0.58	0.78	1.01	1.35	3.6
Total Phosphorus	55	2	N/A				0.02	0.05	0.06	0.08	0.11	0.13	1.04
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	64.2	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:** 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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.2	5.7	6.6	7.6	10.2	12.2	15.1
pH (SU)	85	0	<5	4	4.7		4.2	5.7	6.6	7.6	10.2	12.2	15.1
	85	0	<6	8	9.4		3	5.9	6.6	6.9	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		3	5.9	6.6	6.9	7.2	7.4	8.1
Water Temperature (°C)	85	2	N/A				50	80	88	101	114	127	164
	85	0	>32	0	0		0.1	5.8	10.8	20.8	25.4	27.2	29.4
<b>Other</b>													
Turbidity (NTU)	60	0	>50	4	6.7		3.7	6.2	8.2	12	16	34.9	130
<b>Nutrients (mg/L)</b>													
NH3 as N	60	6	N/A				0.01	0.02	0.04	0.05	0.08	0.12	0.27
NO2 + NO3 as N	60	2	>10	0	0		0.01	0.04	0.1	0.16	0.22	0.28	0.36
TKN as N	60	0	N/A				0.35	0.38	0.49	0.61	0.82	0.97	1.68
Total Phosphorus	57	9	N/A				0.02	0.02	0.03	0.06	0.09	0.16	0.29
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	59.1	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

**Hydrologic Unit Code:** 03020101

**Latitude:** 35.88205

**Longitude:** -78.08932

**Stream class:** WS-V NSW

**Agency:** TPBA

**NC stream index:** 28-(24.7)

**Time period:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.6	5.4	6.5	7.5	10.4	12.2	15
pH (SU)	85	0	<5	3	3.5		4.6	5.4	6.5	7.5	10.4	12.2	15
	85	0	<6	4	4.7		4	6.3	6.7	7	7.2	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4	6.3	6.7	7	7.2	7.3	7.6
Water Temperature (°C)	85	2	N/A				50	78	88	102	116	129	166
	85	0	>32	0	0		0.1	5.8	11.1	20.8	25.4	27.3	29.3
<b>Other</b>													
Turbidity (NTU)	60	0	>50	5	8.3		3.7	5.8	7.8	11	17	43.7	150
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.01	0.03	0.04	0.06	0.08	0.13	0.19
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.05	0.09	0.18	0.23	0.31	0.36
TKN as N	60	0	N/A				0.38	0.45	0.51	0.66	0.84	1.14	1.56
Total Phosphorus	57	7	N/A				0.02	0.02	0.04	0.06	0.08	0.16	0.25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	54.1	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 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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	3	3.5		2	4.9	5.6	6.5	9.5	12	14.3
pH (SU)	85	0	<5	8	9.4		2	4.9	5.6	6.5	9.5	12	14.3
	85	0	<6	6	7.1		3.8	6.3	6.8	7	7.2	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		3.8	6.3	6.8	7	7.2	7.3	7.9
Water Temperature (°C)	85	2	N/A				50	77	90	101	116	127	149
	85	0	>32	0	0		0.8	6.2	12	21.8	26.4	28.5	29.8
<b>Other</b>													
Turbidity (NTU)	60	0	>50	3	5		4.7	6.2	8.5	12	17	26.8	160
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.02	0.02	0.04	0.06	0.09	0.1	0.17
NO2 + NO3 as N	60	1	>10	0	0		0.01	0.08	0.12	0.19	0.24	0.32	0.41
TKN as N	60	0	N/A				0.38	0.44	0.55	0.7	0.87	1.13	2.06
Total Phosphorus	57	4	N/A				0.02	0.02	0.04	0.06	0.08	0.16	0.29
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	63.8	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:** 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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	85	0	<4	32	37.6	> 99.9	0.5	1.4	2.9	4.9	7	9.8	12.9
pH (SU)	85	0	<5	43	50.6	> 99.9	0.5	1.4	2.9	4.9	7	9.8	12.9
	85	0	<6	5	5.9		2.2	6.1	6.5	6.8	6.9	7.1	8.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		2.2	6.1	6.5	6.8	6.9	7.1	8.4
	85	1	N/A				50	81	92	102	114	126	151
Water Temperature (°C)	85	0	>32	0	0		0.5	6	10.1	19.5	23.8	26	27.7
<b>Other</b>													
Turbidity (NTU)	60	0	>50	0	0		4.2	5.5	7.2	9.2	14	22.9	45

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	105.5	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:** 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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	5	5.9		3	4.3	5	7.1	9.6	12.3	13.2
pH (SU)	85	0	<5	20	23.5	> 99.9	3	4.3	5	7.1	9.6	12.3	13.2
	85	0	<6	5	5.9		4.9	6.5	6.7	7	7.1	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.9	6.5	6.7	7	7.1	7.2	7.6
	85	1	N/A				50	75	82	93	108	118	147
Water Temperature (°C)	85	0	>32	0	0		0.8	6.8	12.2	21.9	26.9	29.2	31.1
<b>Other</b>													
TSS (mg/L)	60	23	N/A				1	3.1	3.1	4.1	6	16.9	50
Turbidity (NTU)	60	0	>50	2	3.3		2.1	3.6	5.2	9	17.8	27	115
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.01	0.04	0.07	0.08	0.11	0.13	0.23
NO2 + NO3 as N	60	1	>10	0	0		0.01	0.09	0.12	0.17	0.25	0.32	0.48
TKN as N	60	0	N/A				0.4	0.49	0.64	0.74	0.95	1.14	2.36
Total Phosphorus	57	6	N/A				0	0.02	0.04	0.05	0.08	0.12	0.18
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	42.7	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:** 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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<4	8	9.8		2	3.9	5.3	6.4	8.6	11.4	13.6
pH (SU)	82	0	<5	16	19.5	99.3	2	3.9	5.3	6.4	8.6	11.4	13.6
	82	0	<6	6	7.3		4.2	6.1	6.7	6.8	7	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	82	0	>9	0	0		4.2	6.1	6.7	6.8	7	7.2	7.6
Water Temperature (°C)	82	0	N/A				52	76	86	94	105	114	144
	82	0	>32	0	0		0.4	6.4	10.9	20.5	24.4	26.2	28.3
<b>Other</b>													
TSS (mg/L)	58	21	N/A				1	3.1	3.1	3.8	5.9	17.2	60
Turbidity (NTU)	58	0	>50	2	3.4		3.2	4.8	6.1	8.2	13.2	21.7	85
<b>Nutrients (mg/L)</b>													
NH3 as N	58	5	N/A				0.01	0.02	0.05	0.07	0.08	0.12	0.16
NO2 + NO3 as N	58	0	N/A				0.01	0.13	0.2	0.3	0.39	0.5	0.68
TKN as N	58	0	N/A				0.34	0.53	0.62	0.8	1.07	1.51	2.09
Total Phosphorus	55	4	N/A				0.02	0.03	0.06	0.08	0.12	0.15	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	147.1	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:** TAR RIV AT NC 97 AT ROCKY MOUNT

**Station #:** O3180000

**Hydrologic Unit Code:** 03020101

**Latitude:** 35.95438      **Longitude:** -77.78740

**Stream class:** C NSW

**Agency:** NCAMBNT

**NC stream index:** 28-(69)

**Time period:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		5.2	6.4	7.2	9.2	11.9	12.8	13.3
	30	0	<5	0	0		5.2	6.4	7.2	9.2	11.9	12.8	13.3
pH (SU)	31	0	<6	0	0		6.2	6.7	6.9	7.1	7.3	7.6	7.8
	31	0	>9	0	0		6.2	6.7	6.9	7.1	7.3	7.6	7.8
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				48	68	79	94	102	110	122
Water Temperature (°C)	31	0	>32	1	3.2		5	6.8	9.8	18.1	24.4	30.4	32.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				20	20	24	27	28	31	31
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.7	12	25.2	42
Turbidity (NTU)	31	0	>50	1	3.2		1.3	2.8	3.8	8.6	17	31.2	80
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	64.9	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:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	76	0	<4	0	0		4.8	5.7	6.5	7.6	10.3	12.5	13.3
pH (SU)	76	0	<5	2	2.6		4.8	5.7	6.5	7.6	10.3	12.5	13.3
	76	0	<6	3	3.9		3.6	6.5	6.7	7	7.1	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	76	0	>9	0	0		3.6	6.5	6.7	7	7.1	7.3	7.8
	75	0	N/A				51	77	84	96	108	118	164
Water Temperature (°C)	76	0	>32	0	0		2.6	7.1	12.8	22.2	26.6	28.9	31.1
<b>Other</b>													
TSS (mg/L)	54	18	N/A				1	3.1	3.3	4.2	7.5	19	65
Turbidity (NTU)	54	0	>50	3	5.6		2.1	3.8	5.4	8.4	15	24	110
<b>Nutrients (mg/L)</b>													
NH3 as N	54	1	N/A				0.01	0.03	0.05	0.07	0.09	0.12	0.2
NO2 + NO3 as N	54	0	N/A				0.04	0.12	0.15	0.23	0.29	0.34	0.5
TKN as N	54	0	N/A				0.4	0.55	0.61	0.76	0.98	1.16	1.57
Total Phosphorus	51	5	N/A				0.02	0.02	0.04	0.07	0.09	0.13	0.16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	77.5	9	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 SR 1252 NR HARTSEASE

**Station #:** O3600000

**Hydrologic Unit Code:** 03020101

**Latitude:** 35.94090      **Longitude:** -77.65511

**Stream class:** WS-IV NSW

**Agency:** NCAMBNT

**NC stream index:** 28-(74)

**Time period:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		5.6	5.8	7.4	8.7	11.7	12.5	12.8
pH (SU)	30	0	<5	0	0		5.6	5.8	7.4	8.7	11.7	12.5	12.8
	31	0	<6	0	0		6.1	6.5	6.8	7	7.2	7.4	8.3
	31	0	>9	0	0		6.1	6.5	6.8	7	7.2	7.4	8.3
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				54	73	94	108	132	155	210
Water Temperature (°C)	31	0	>32	0	0		5.3	7	9.9	18	23.9	29.3	31.9
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		20	22	27	30	33	35	43
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	8.8	16.5	36.8	58
Turbidity (NTU)	31	0	>50	1	3.2		1.3	2.3	3.9	14	16	35.2	70
<b>Nutrients (mg/L)</b>													
NH3 as N	28	5	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.08
NO2 + NO3 as N	28	0	>10	0	0		0.16	0.24	0.28	0.48	0.56	0.78	1.2
TKN as N	28	0	N/A				0.4	0.47	0.54	0.56	0.68	0.78	0.9
Total Phosphorus	28	0	N/A				0.05	0.06	0.08	0.1	0.14	0.18	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	84.1	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

**Hydrologic Unit Code:** 03020101

**Latitude:** 35.94090

**Longitude:** -77.65511

**Stream class:** WS-IV NSW

**Agency:** TPBA

**NC stream index:** 28-(74)

**Time period:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.1	6	6.7	7.5	10.2	12.2	13.2
pH (SU)	85	0	<5	0	0		5.1	6	6.7	7.5	10.2	12.2	13.2
	85	0	<6	2	2.4		5	6.5	6.8	7.1	7.2	7.5	8
	85	0	>9	0	0		5	6.5	6.8	7.1	7.2	7.5	8
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				56	87	99	123	144	178	212
Water Temperature (°C)	85	0	>32	0	0		2.6	7.1	12.8	22.1	26.3	28.3	31.3
<b>Other</b>													
TSS (mg/L)	60	18	N/A				1	2.8	3.1	5.4	11.8	26	168
Turbidity (NTU)	60	0	>50	4	6.7		1.8	2.8	5.3	8.8	15.8	26.7	85
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.01	0.03	0.05	0.07	0.08	0.11	0.21
NO2 + NO3 as N	60	0	>10	0	0		0.13	0.29	0.39	0.55	0.75	0.9	1.09
TKN as N	60	0	N/A				0.44	0.53	0.63	0.8	0.96	1.16	2.23
Total Phosphorus	57	2	N/A				0.02	0.03	0.07	0.09	0.13	0.17	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	78.8	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:** SANDY CRK AT SR 1432 NR GUPTON

**Station #:** O3830000

**Hydrologic Unit Code:** 03020101

**Latitude:** 36.17785      **Longitude:** -78.19089

**Stream class:** B NSW +

**Agency:** NCAMBNT

**NC stream index:** 28-78-1-(8)

**Time period:** 02/10/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	28	0	<4	0	0		5.3	6.4	7.2	9.2	11.5	12.6	14.8
pH (SU)	28	0	<5	0	0		5.3	6.4	7.2	9.2	11.5	12.6	14.8
	31	0	<6	0	0		6.4	6.6	6.8	7.2	7.3	7.4	7.6
	31	0	>9	0	0		6.4	6.6	6.8	7.2	7.3	7.4	7.6
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				57	62	73	82	92	104	108
Water Temperature (°C)	31	0	>32	0	0		2	5.2	7.2	16.5	24.4	25.6	28.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				14	17	19	24	31	33	50
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	7.3	12
Turbidity (NTU)	31	0	>50	0	0		3	3.6	3.8	4.6	7.3	8.9	30
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
29	39.1	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:** 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:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		4.2	5.2	7	8.8	11.6	12.9	13.1
pH (SU)	30	0	<5	1	3.3		4.2	5.2	7	8.8	11.6	12.9	13.1
	31	0	<6	1	3.2		5.6	6.2	6.6	6.9	7.1	7.3	7.5
Salinity (ppt)	31	0	>9	0	0		5.6	6.2	6.6	6.9	7.1	7.3	7.5
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				55	61	64	74	84	94	103
Water Temperature (°C)	31	0	>32	0	0		3.4	4.7	6.5	16.3	22.1	24.8	26.3
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				17	17	20	24	25	30	30
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	18	33	51
Turbidity (NTU)	31	0	>50	1	3.2		3	3.5	5.3	8.2	22	30	55
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
30	160.1	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

**Hydrologic Unit Code:** 03020101

**Latitude:** 35.96679

**Longitude:** -77.58535

**Stream class:** WS-IV NSW

**Agency:** NCAMBNT

**NC stream index:** 28-78-(6.5)

**Time period:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		4.6	4.9	7	8.3	11.2	12.2	12.5
pH (SU)	30	0	<5	3	10		4.6	4.9	7	8.3	11.2	12.2	12.5
	31	0	<6	0	0		6.2	6.2	6.5	7	7.2	7.3	7.6
	31	0	>9	0	0		6.2	6.2	6.5	7	7.2	7.3	7.6
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				49	72	78	93	104	112	131
Water Temperature (°C)	31	0	>32	0	0		4.9	5.9	7.6	17.4	24.4	27.2	28.5
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		21	21	25	34	37	38	42
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.7	13.8	15
Turbidity (NTU)	31	0	>50	0	0		2.3	2.6	3.4	4.3	6.1	9.6	16
<b>Nutrients (mg/L)</b>													
NH3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	1	0	>10	0	0		0.09	0.09	0.09	0.09	0.09	0.09	0.09
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				0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	78.1	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:** TAR RIV AT NC 33 NR TARBORO

**Station #:** O4100000

**Hydrologic Unit Code:** 03020101

**Latitude:** 35.92844

**Longitude:** -77.54984

**Stream class:** WS-IV NSW

**Agency:** TPBA

**NC stream index:** 28-(74)

**Time period:** 01/13/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	0	0		4.8	6	6.6	7.4	9.9	12.2	14.5
pH (SU)	84	0	<5	2	2.4		4.8	6	6.6	7.4	9.9	12.2	14.5
	84	0	<6	2	2.4		5.4	6.5	6.7	6.9	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		5.4	6.5	6.7	6.9	7.2	7.4	8.1
	84	0	N/A				59	86	95	114	135	158	232
Water Temperature (°C)	84	0	>32	0	0		1.7	7.6	12.6	22.2	26.4	29.1	31.8
<b>Other</b>													
Turbidity (NTU)	59	0	>50	3	5.1		1.8	3.9	5.3	10	17	20	120
<b>Nutrients (mg/L)</b>													
NH3 as N	59	6	N/A				0.01	0.02	0.04	0.06	0.08	0.1	0.22
NO2 + NO3 as N	59	0	>10	0	0		0.17	0.23	0.29	0.41	0.52	0.67	0.97
TKN as N	59	0	N/A				0.37	0.46	0.58	0.74	0.96	1.21	2.31
Total Phosphorus	56	4	N/A				0.02	0.03	0.05	0.08	0.12	0.18	0.44
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	60.6	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:** 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:** 01/14/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	19	22.4	99.9	0.4	2.7	4.7	6	8.6	11.4	13.1
pH (SU)	85	0	<5	24	28.2	> 99.9	0.4	2.7	4.7	6	8.6	11.4	13.1
	85	0	<6	11	12.9	77.1	2.9	5.6	6.4	6.7	7	7.5	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		2.9	5.6	6.4	6.7	7	7.5	8.1
Water Temperature (°C)	84	0	N/A				56	66	73	84	96	120	163
	85	0	>32	0	0		0.2	4.2	10.4	19.5	22	24.3	25.9
<b>Other</b>													
Turbidity (NTU)	60	0	>50	1	1.7		5.5	6.9	9.2	12	14	20	55
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.01	0.02	0.03	0.06	0.1	0.15	0.38
NO2 + NO3 as N	60	10	N/A				0.01	0.02	0.02	0.05	0.1	0.14	0.24
TKN as N	60	1	N/A				0.2	0.29	0.39	0.51	0.67	0.92	1.24
Total Phosphorus	57	8	N/A				0.02	0.02	0.03	0.04	0.07	0.09	0.38

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	55.9	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:** 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:** 01/14/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	72	0	<4	9	12.5	70.8	2.1	3.8	6.4	7.4	10.6	12.8	14
	72	0	<5	11	15.3	89.8	2.1	3.8	6.4	7.4	10.6	12.8	14
pH (SU)	72	0	<6	7	9.7		4.6	6	6.6	6.9	7.1	7.3	7.9
	72	0	>9	0	0		4.6	6	6.6	6.9	7.1	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	72	0	N/A				54	77	86	106	127	209	298
Water Temperature (°C)	72	0	>32	0	0		0.4	4.6	9.4	18.6	22	24.5	25.8
<b>Other</b>													
Turbidity (NTU)	52	0	>50	0	0		3.2	4.7	6.4	8.4	9.9	13	31
<b>Nutrients (mg/L)</b>													
NH3 as N	52	3	N/A				0.01	0.03	0.04	0.06	0.09	0.11	0.44
NO2 + NO3 as N	52	0	N/A				0.05	0.09	0.27	0.54	0.75	1.01	1.86
TKN as N	52	2	N/A				0.2	0.27	0.38	0.52	0.65	0.93	1.49
Total Phosphorus	49	2	N/A				0.02	0.03	0.04	0.06	0.09	0.12	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	71.9	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:** 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

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	6	0	<4	0	0		4.9	4.9	5.5	5.9	6.9	7.6	7.6
pH (SU)	6	0	<5	1	16.7		4.9	4.9	5.5	5.9	6.9	7.6	7.6
	6	0	<6	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	>9	0	0		6.1	6.1	6.6	7.1	7.1	7.1	7.1
	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
<b>Other</b>													
Turbidity (NTU)	3	0	>50	0	0		3.7	3.7	3.7	5.3	10	10	10
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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

**Hydrologic Unit Code:** 03020102

**Latitude:** 36.20105

**Longitude:** -78.00401

**Stream class:** WS-V NSW

**Agency:** TPBA

**NC stream index:** 28-79-(21)

**Time period:** 01/14/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	2	2.4		3.7	5.2	6.4	7.7	10	12.1	14.3
pH (SU)	85	0	<5	6	7.1		3.7	5.2	6.4	7.7	10	12.1	14.3
	85	0	<6	8	9.4		4	6	6.8	7	7.2	7.3	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4	6	6.8	7	7.2	7.3	8.1
Water Temperature (°C)	85	0	N/A				52	68	76	90	99	113	143
	85	0	>32	0	0		0.1	4.6	10.4	18.8	22.4	24.4	26.5
<b>Other</b>													
TSS (mg/L)	60	27	N/A				2.4	3	3.1	3.4	5	8.4	17
Turbidity (NTU)	60	0	>50	0	0		5	5.8	7.4	9.2	12	18	29
<b>Nutrients (mg/L)</b>													
NH3 as N	60	6	N/A				0.01	0.02	0.03	0.04	0.08	0.12	0.44
NO2 + NO3 as N	60	1	>10	0	0		0.01	0.03	0.06	0.11	0.17	0.21	0.27
TKN as N	60	1	N/A				0.2	0.25	0.36	0.5	0.67	1	1.49
Total Phosphorus	57	7	N/A				0.02	0.02	0.03	0.04	0.06	0.08	0.57
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	60												
<b>Geomean:</b>	65												
<b># &gt; 400:</b>				1									
<b>% &gt; 400:</b>				1.7									
<b>%Conf:</b>													

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/14/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	7	8.2		1.9	4.2	6.1	7.2	9.6	12.1	14.3
pH (SU)	85	0	<5	14	16.5	95.7	1.9	4.2	6.1	7.2	9.6	12.1	14.3
	85	0	<6	6	7.1		4.2	6.4	6.7	6.9	7.1	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.2	6.4	6.7	6.9	7.1	7.2	7.6
Water Temperature (°C)	85	0	N/A				57	66	74	84	101	112	131
	85	0	>32	0	0		0.1	5.1	10.8	18.9	23	25.1	27.1
<b>Other</b>													
TSS (mg/L)	60	34	N/A				1	2.8	3.1	3.2	4.1	6	13
Turbidity (NTU)	60	0	>50	0	0		2.8	4.9	5.6	8	11	14	30
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.01	0.03	0.04	0.06	0.08	0.14	0.44
NO2 + NO3 as N	60	5	N/A				0.01	0.02	0.04	0.08	0.12	0.15	0.18
TKN as N	60	0	N/A				0.21	0.29	0.44	0.55	0.78	1	1.9
Total Phosphorus	57	6	N/A				0.02	0.02	0.04	0.05	0.06	0.11	0.51
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	59.8	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:** 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:** 01/14/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.8	4.9	6.2	7.7	10	12.4	14.5
pH (SU)	85	0	<5	10	11.8	65.5	3.8	4.9	6.2	7.7	10	12.4	14.5
	85	0	<6	4	4.7		4.9	6.6	6.7	6.9	7.2	7.2	7.8
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.9	6.6	6.7	6.9	7.2	7.2	7.8
Water Temperature (°C)	85	0	N/A				58	73	78	89	102	112	125
	85	0	>32	0	0		0.9	6.4	10.4	20.8	25.2	27.9	31
<b>Other</b>													
Turbidity (NTU)	60	0	>50	0	0		2.6	4	5.3	7.6	9.4	14	28
<b>Nutrients (mg/L)</b>													
NH3 as N	60	6	N/A				0.01	0.02	0.04	0.07	0.1	0.18	0.47
NO2 + NO3 as N	60	0	>10	0	0		0.02	0.03	0.08	0.12	0.16	0.21	0.28
TKN as N	60	0	N/A				0.21	0.3	0.41	0.58	0.82	1.11	2.52
Total Phosphorus	57	6	N/A				0.02	0.02	0.03	0.05	0.07	0.11	0.63

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	31.6	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 US 301 NR ENFIELD

**Station #:** O4680000

**Hydrologic Unit Code:** 03020102

**Latitude:** 36.15094      **Longitude:** -77.69267

**Stream class:** C NSW

**Agency:** NCAMBNT

**NC stream index:** 28-79-(29)

**Time period:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	1	3.3		2.5	4.1	6.4	8.7	11.9	12.9	13.9
pH (SU)	30	0	<5	5	16.7	82.4	2.5	4.1	6.4	8.7	11.9	12.9	13.9
	31	0	<6	0	0		6	6.3	6.7	6.9	7.1	7.3	7.4
	31	0	>9	0	0		6	6.3	6.7	6.9	7.1	7.3	7.4
Salinity (ppt)	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				54	61	68	77	98	102	113
Water Temperature (°C)	31	0	>32	0	0		3.5	4.4	7.2	16	22.7	26.9	29.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				13	19	22	28	33	36	38
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	15	21.8	24
Turbidity (NTU)	31	0	>50	0	0		3.3	3.8	5.3	8.3	13	32.8	45
<b>Nutrients (mg/L)</b>													
NH3 as N	31	14	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	0.04	0.07	0.11	0.16	0.25	0.51
TKN as N	31	0	N/A				0.26	0.3	0.36	0.43	0.61	0.74	1
Total Phosphorus	31	0	N/A				0.03	0.03	0.04	0.05	0.09	0.12	0.14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	82.4	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:** 01/14/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<4	4	4.9		3.5	4.6	5.8	7	10.2	12	13.9
pH (SU)	82	0	<5	10	12.2	69.6	3.5	4.6	5.8	7	10.2	12	13.9
	82	0	<6	4	4.9		5.1	6.4	6.7	6.9	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	82	0	>9	0	0		5.1	6.4	6.7	6.9	7.1	7.3	7.4
	82	0	N/A				57	73	79	92	104	117	135
Water Temperature (°C)	82	0	>32	0	0		1	7.5	11.3	20.8	25.8	27.8	29.1
<b>Other</b>													
Turbidity (NTU)	58	0	>50	0	0		3.6	4.6	5.3	8.1	11.2	17.2	28
<b>Nutrients (mg/L)</b>													
NH3 as N	58	5	N/A				0.01	0.02	0.04	0.06	0.09	0.11	0.45
NO2 + NO3 as N	58	2	N/A				0.01	0.05	0.1	0.14	0.22	0.26	0.32
TKN as N	58	1	N/A				0.2	0.33	0.4	0.62	0.79	0.96	1.63
Total Phosphorus	55	7	N/A				0.02	0.02	0.04	0.05	0.07	0.09	0.74
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	40.5	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:** FISHING CRK AT NC 97 NR LAWRENCE

**Station #:** O4899000

**Hydrologic Unit Code:** 03020102

**Latitude:** 36.00828

**Longitude:** -77.52518

**Stream class:** WS-IV NSW

**Agency:** TPBA

**NC stream index:** 28-79-(30.5)

**Time period:** 01/14/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		1.4	5.6	6.6	7.3	9.9	12.2	13.6
pH (SU)	85	0	<5	5	5.9		1.4	5.6	6.6	7.3	9.9	12.2	13.6
	85	0	<6	6	7.1		3.8	6.2	6.5	6.7	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		3.8	6.2	6.5	6.7	7.1	7.2	7.5
Water Temperature (°C)	85	0	N/A				61	79	85	97	108	119	137
	85	0	>32	0	0		1	6.7	11.6	20.8	25.8	28.5	31.4
<b>Other</b>													
TSS (mg/L)	60	29	N/A				1	3.1	3.1	3.4	5.1	8.1	60
Turbidity (NTU)	60	0	>50	1	1.7		2.6	3.4	5.2	8.3	11	16.8	75
<b>Nutrients (mg/L)</b>													
NH3 as N	60	7	N/A				0.01	0.02	0.03	0.06	0.1	0.13	0.41
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.04	0.1	0.16	0.22	0.28	0.64
TKN as N	60	0	N/A				0.26	0.38	0.5	0.7	0.95	1.2	1.6
Total Phosphorus	57	4	N/A				0.02	0.03	0.04	0.06	0.09	0.11	0.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	45	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:** 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:** 01/14/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	79	0	<4	57	72.2	> 99.9	0.1	0.2	0.9	2.5	4.8	9.4	12.8
pH (SU)	79	0	<5	62	78.5	> 99.9	0.1	0.2	0.9	2.5	4.8	9.4	12.8
	79	0	<6	15	19	98.9	3.7	5.6	6.1	6.3	6.6	6.9	7
Spec. conductance (umhos/cm at 25°C)	79	0	>9	0	0		3.7	5.6	6.1	6.3	6.6	6.9	7
	79	0	N/A				68	82	98	120	142	160	202
Water Temperature (°C)	79	0	>32	0	0		1.3	6.1	13.5	20.5	23.7	25.4	27.3
<b>Other</b>													
Turbidity (NTU)	56	0	>50	0	0		2.8	5.7	6.8	12	19.8	33.2	50
<b>Nutrients (mg/L)</b>													
NH3 as N	56	1	N/A				0.01	0.03	0.05	0.11	0.38	0.88	2.28
NO2 + NO3 as N	56	28	N/A				0.01	0.01	0.02	0.02	0.02	0.04	0.16
TKN as N	56	0	N/A				0.35	0.99	1.19	1.67	2.79	4.13	7.6
Total Phosphorus	53	0	N/A				0.03	0.06	0.12	0.23	0.35	0.63	0.93
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	98.8	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:** 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:** 01/14/2010 to 12/11/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	66	78.6	> 99.9	0.1	0.2	0.8	1.6	3.4	8.1	11.3
pH (SU)	84	0	<5	68	81	> 99.9	0.1	0.2	0.8	1.6	3.4	8.1	11.3
	84	0	<6	18	21.4	99.9	5.2	5.8	6.1	6.3	6.5	6.7	7
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		5.2	5.8	6.1	6.3	6.5	6.7	7
	84	0	N/A				63	77	94	112	159	194	277
Water Temperature (°C)	84	0	>32	0	0		2	6.4	13.6	21.2	23.3	25.5	27.4
<b>Other</b>													
Turbidity (NTU)	59	0	>50	1	1.7		1.8	3.3	4.9	8.3	13	22	70
<b>Nutrients (mg/L)</b>													
NH3 as N	59	2	N/A				0.02	0.03	0.05	0.08	0.18	0.31	0.68
NO2 + NO3 as N	59	38	N/A				0.01	0.01	0.02	0.02	0.03	0.09	0.53
TKN as N	59	0	N/A				0.58	0.81	1.05	1.5	1.85	2.75	3.5
Total Phosphorus	56	0	N/A				0.03	0.07	0.1	0.2	0.41	0.71	1.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	97.1	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:** 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:** 02/18/2010 to 12/16/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	30	0	<4	0	0		4.2	5.5	7.1	8.5	11.3	12.6	13.3
pH (SU)	30	0	<5	2	6.7		4.2	5.5	7.1	8.5	11.3	12.6	13.3
	31	0	<6	0	0		6.1	6.3	6.6	6.9	7.2	7.4	8.1
Salinity (ppt)	31	0	>9	0	0		6.1	6.3	6.6	6.9	7.2	7.4	8.1
	1	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				59	67	82	97	126	140	173
Water Temperature (°C)	31	0	>32	1	3.2		4.8	6.2	8.6	17.8	23.8	29.1	32.3
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				13	19	25	30	36	39	42
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	11	26.8	35.5	61
Turbidity (NTU)	31	0	>50	0	0		2.2	3	4	12	17	32.8	36
<b>Nutrients (mg/L)</b>													
NH3 as N	31	9	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.1
NO2 + NO3 as N	31	0	N/A				0.15	0.19	0.23	0.31	0.43	0.51	0.58
TKN as N	31	0	N/A				0.39	0.4	0.47	0.56	0.68	0.86	0.96
Total Phosphorus	31	0	N/A				0.05	0.06	0.07	0.09	0.12	0.17	0.19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
31	75.9	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:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	1	1.2		1.9	5.8	6.4	7.3	9.8	11.8	13
pH (SU)	84	0	<5	2	2.4		1.9	5.8	6.4	7.3	9.8	11.8	13
	84	0	<6	6	7.1		4.3	6	6.5	6.8	7.1	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		4.3	6	6.5	6.8	7.1	7.3	7.9
Water Temperature (°C)	84	0	N/A				55	78	89	106	126	150	192
	84	0	>32	0	0		1.6	7.6	11.4	20.6	26.7	28	31.1
<b>Other</b>													
TSS (mg/L)	59	12	N/A				2.8	3.1	3.9	7.4	13	22	36
Turbidity (NTU)	59	0	>50	0	0		2.6	3.6	6.9	12	17	33	50
<b>Nutrients (mg/L)</b>													
NH3 as N	59	5	N/A				0.01	0.02	0.03	0.05	0.08	0.1	0.18
NO2 + NO3 as N	59	1	N/A				0.02	0.2	0.26	0.33	0.44	0.53	0.62
TKN as N	59	0	N/A				0.28	0.41	0.58	0.78	1	1.29	1.62
Total Phosphorus	56	3	N/A				0.02	0.05	0.07	0.09	0.11	0.15	0.22
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	79.2	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:** 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:** 01/07/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	55	64.7	> 99.9	0.3	0.7	1.5	2.9	5.2	9.3	11.9
pH (SU)	85	0	<5	62	72.9	> 99.9	0.3	0.7	1.5	2.9	5.2	9.3	11.9
	85	0	<6	10	11.8	65.5	4.8	5.9	6.1	6.4	6.6	6.8	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.8	5.9	6.1	6.4	6.6	6.8	7.2
	85	0	N/A				73	83	94	106	118	125	139
Water Temperature (°C)	85	0	>32	0	0		0.3	6.7	11.6	20.5	25.2	27.3	28.9
<b>Other</b>													
Turbidity (NTU)	60	0	>50	0	0		2.7	4	4.6	6.7	8.9	12.9	22

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	73.7	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:** 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:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	85	0	<4	16	18.8	99	1.4	2.9	4.4	6	8	10.7	14
pH (SU)	85	0	<5	31	36.5	> 99.9	1.4	2.9	4.4	6	8	10.7	14
	85	0	<6	9	10.6	51.8	4.3	5.9	6.2	6.5	6.7	6.9	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.3	5.9	6.2	6.5	6.7	6.9	7.4
	85	0	N/A				62	81	94	104	116	124	138
Water Temperature (°C)	85	0	>32	0	0		0.9	7.4	11.2	19.7	24.3	26	27.5
<b>Other</b>													
Turbidity (NTU)	60	0	>50	0	0		2.4	3.2	4	5.6	7.6	16.7	20

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	105.4	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:** TAR RIV AT NC 42 AT OLD SPARTA

**Station #:** O6000000

**Hydrologic Unit Code:** 03020103

**Latitude:** 35.79030

**Longitude:** -77.55067

**Stream class:** C NSW

**Agency:** TPBA

**NC stream index:** 28-(80)

**Time period:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	0	0		4.7	5.6	6.3	7	10	11.5	13.4
pH (SU)	84	0	<5	2	2.4		4.7	5.6	6.3	7	10	11.5	13.4
	84	0	<6	6	7.1		4.7	6.2	6.5	6.9	7.2	7.5	8.4
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		4.7	6.2	6.5	6.9	7.2	7.5	8.4
	84	0	N/A				57	80	93	108	130	172	231
Water Temperature (°C)	84	0	>32	0	0		1.5	7.4	11.4	20.2	26	27.8	30.5
<b>Other</b>													
TSS (mg/L)	60	12	N/A				1.7	3.1	3.4	9	13.8	23.9	37
Turbidity (NTU)	60	0	>50	0	0		1.4	2.9	5.8	11	18.8	33.8	50
<b>Nutrients (mg/L)</b>													
NH3 as N	60	7	N/A				0.01	0.02	0.04	0.07	0.1	0.13	0.52
NO2 + NO3 as N	60	0	N/A				0.16	0.23	0.27	0.36	0.54	0.6	0.72
TKN as N	60	1	N/A				0.2	0.41	0.56	0.77	0.94	1.35	2.35
Total Phosphorus	57	2	N/A				0.02	0.05	0.07	0.08	0.1	0.14	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	83.6	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:** TAR RIV AT NC 222 NR FALKLAND

**Station #:** O6200000

**Hydrologic Unit Code:** 03020103

**Latitude:** 35.69624

**Longitude:** -77.48949

**Stream class:** WS-IV NSW

**Agency:** NCAMBNT

**NC stream index:** 28-(84)

**Time period:** 01/20/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	1	1.7		1.2	6.3	7.2	8.4	10.8	11.6	12
	60	0	<5	2	3.3		1.2	6.3	7.2	8.4	10.8	11.6	12
pH (SU)	59	0	<6	5	8.5		5.6	6.1	6.4	6.8	7.1	7.6	8.5
	59	0	>9	0	0		5.6	6.1	6.4	6.8	7.1	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)	59	0	N/A				62	84	98	110	145	171	209
Water Temperature (°C)	60	0	>32	1	1.7		4.4	5.9	10	17.8	26.1	29.3	32.2
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		25	27	30	32	36	39	40
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	7.5	11.8	17.4	50
Turbidity (NTU)	60	0	>50	1	1.7		1.8	2.3	4.6	8	13	24.9	58
<b>Nutrients (mg/L)</b>													
NH3 as N	59	17	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.09
NO2 + NO3 as N	59	0	>10	0	0		0.06	0.16	0.26	0.34	0.44	0.52	0.68
TKN as N	59	0	N/A				0.36	0.42	0.5	0.56	0.7	0.83	1.7
Total Phosphorus	59	0	N/A				0.03	0.05	0.06	0.09	0.11	0.14	0.35
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	53.3	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:** 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:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	27	32.1	> 99.9	0.4	2	3.8	5.2	7.6	9.5	11.8
pH (SU)	84	0	<5	38	45.2	> 99.9	0.4	2	3.8	5.2	7.6	9.5	11.8
	84	0	<6	40	47.6	> 99.9	4.5	5.3	5.6	6	6.3	6.6	7
Spec. conductance (umhos/cm at 25°C)	84	0	>9	0	0		4.5	5.3	5.6	6	6.3	6.6	7
	84	0	N/A				99	127	138	158	178	210	244
Water Temperature (°C)	84	0	>32	0	0		4.5	9.1	12.6	19.8	24	26.8	29.4
<b>Other</b>													
TSS (mg/L)	59	18	N/A				1.1	3.1	3.3	5.8	9.6	25	238
Turbidity (NTU)	59	0	>50	1	1.7		1.6	3.5	4.6	7.9	11	16	90
<b>Nutrients (mg/L)</b>													
NH3 as N	59	3	N/A				0.01	0.03	0.05	0.09	0.15	0.28	1.41
NO2 + NO3 as N	59	3	N/A				0.01	0.07	0.62	1.03	1.64	2.09	2.58
TKN as N	59	0	N/A				0.25	0.43	0.56	0.73	1	1.39	4.51
Total Phosphorus	56	10	N/A				0.02	0.02	0.02	0.04	0.06	0.08	0.5
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	64	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:** CONETOE CRK AT SR 1409 NR BETHEL

**Station #:** O6205000

**Hydrologic Unit Code:** 03020103

**Latitude:** 35.77427

**Longitude:** -77.46384

**Stream class:** C NSW

**Agency:** NCAMBNT

**NC stream index:** 28-87-(0.5)

**Time period:** 01/20/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	4	7		2.6	4.3	6	7.5	9.6	10.4	11.6
pH (SU)	57	0	<5	10	17.5	94.5	2.6	4.3	6	7.5	9.6	10.4	11.6
	56	0	<6	21	37.5	>99.9	5.1	5.5	5.8	6.1	6.2	6.5	7.1
Salinity (ppt)	56	0	>9	0	0		5.1	5.5	5.8	6.1	6.2	6.5	7.1
	57	0	N/A				0.04	0.06	0.06	0.06	0.07	0.08	0.09
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				110	132	138	148	162	171	206
Water Temperature (°C)	57	0	>32	0	0		4.3	6.4	9.8	16	22.4	24.2	25.6
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				39	42	45	48	50	58	65
TSS (mg/L)	19	15	N/A				6.2	6.2	6.2	6.2	8.3	12	23
Turbidity (NTU)	57	0	>50	0	0		1.2	2.5	3.7	4.9	7.4	16.2	29
<b>Nutrients (mg/L)</b>													
NH3 as N	57	3	N/A				0.02	0.02	0.05	0.08	0.14	0.36	0.55
NO2 + NO3 as N	57	0	N/A				0.18	1.2	1.6	2	2.2	2.52	2.8
TKN as N	57	0	N/A				0.32	0.46	0.54	0.64	0.83	1	1.6
Total Phosphorus	57	0	N/A				0.02	0.03	0.04	0.06	0.08	0.12	0.19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	88.1	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:** 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:** NCAMBNT

**NC stream index:** 28-(84)

**Time period:** 01/06/2010 to 08/25/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	34	0	<4	0	0		5.6	6.4	6.8	7.6	10.4	11.6	12.9
pH (SU)	34	0	<5	0	0		5.6	6.4	6.8	7.6	10.4	11.6	12.9
	34	0	<6	4	11.8	55.3	4.1	5.9	6.2	6.7	7.1	7.2	7.5
Salinity (ppt)	34	0	>9	0	0		4.1	5.9	6.2	6.7	7.1	7.2	7.5
	34	0	N/A				0.02	0.02	0.03	0.04	0.06	0.07	0.08
Spec. conductance (umhos/cm at 25°C)	34	0	N/A				61	71	89	101	141	165	180
Water Temperature (°C)	34	0	>32	1	2.9		1.8	3.9	9.1	19.8	29.7	31.1	32.5
<b>Nutrients (mg/L)</b>													
NH3 as N	34	8	N/A				0.02	0.02	0.02	0.03	0.03	0.04	0.12
NO2 + NO3 as N	34	0	>10	0	0		0.08	0.23	0.3	0.41	0.49	0.6	0.82
TKN as N	34	0	N/A				0.41	0.42	0.45	0.53	0.6	0.76	1
Total Phosphorus	34	0	N/A				0.05	0.05	0.06	0.08	0.1	0.14	0.22

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/07/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	2	2.4		1.8	5.5	6	6.9	9	11.2	15.5
pH (SU)	85	0	<5	5	5.9		1.8	5.5	6	6.9	9	11.2	15.5
	85	0	<6	7	8.2		3.7	6.1	6.4	6.8	7.1	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		3.7	6.1	6.4	6.8	7.1	7.4	8.1
Water Temperature (°C)	85	0	N/A				67	76	92	112	134	165	215
	85	0	>32	0	0		1.8	7.5	11.6	20.8	26.4	28.5	31.4
<b>Other</b>													
TSS (mg/L)	60	9	N/A				2.9	3.1	5	7	14	19	48
Turbidity (NTU)	60	0	>50	0	0		2.1	3.4	7.1	10	16	26.9	40
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.01	0.02	0.05	0.06	0.09	0.11	0.36
NO2 + NO3 as N	60	2	>10	0	0		0.01	0.24	0.29	0.42	0.55	0.63	0.75
TKN as N	60	0	N/A				0.28	0.44	0.54	0.75	1.04	1.27	1.78
Total Phosphorus	57	4	N/A				0.02	0.04	0.06	0.08	0.1	0.13	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	63.3	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:** CHICOD CRK AT SR 1760 NR SIMPSON

**Station #:** O6450000

**Hydrologic Unit Code:** 03020103

**Latitude:** 35.56149

**Longitude:** -77.23047

**Stream class:** C NSW

**Agency:** NCAMBNT

**NC stream index:** 28-101

**Time period:** 01/20/2010 to 12/01/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<4	17	28.3	> 99.9	0	1.6	3.4	6.1	8.8	10	12.7
pH (SU)	60	0	<5	25	41.7	> 99.9	0	1.6	3.4	6.1	8.8	10	12.7
	59	0	<6	4	6.8		5.5	6.1	6.2	6.4	6.8	6.9	7.7
Salinity (ppt)	59	0	>9	0	0		5.5	6.1	6.2	6.4	6.8	6.9	7.7
	60	0	N/A				0.02	0.04	0.05	0.06	0.08	0.08	0.11
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				66	101	122	150	173	188	235
Water Temperature (°C)	60	0	>32	0	0		0.7	5.4	9.6	16.9	23.6	26.3	28.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				16	23	41	52	60	69	78
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	11.8	15.6	17
Turbidity (NTU)	60	0	>50	0	0		2.6	3.6	4.6	7	8.7	13	31
<b>Nutrients (mg/L)</b>													
NH3 as N	60	23	N/A				0.02	0.02	0.02	0.03	0.04	0.15	0.63
NO2 + NO3 as N	60	13	N/A				0.02	0.02	0.03	0.22	0.42	0.73	1
TKN as N	60	0	N/A				0.4	0.51	0.58	0.73	1	1.2	2.8
Total Phosphorus	60	0	N/A				0.06	0.08	0.1	0.19	0.3	0.42	1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	139.7	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 SR 1565 NR GRIMESLAND

**Station #:** O6500000

**Hydrologic Unit Code:** 03020103

**Latitude:** 35.57404

**Longitude:** -77.17542

**Stream class:** B NSW

**Agency:** NCAMBNT

**NC stream index:** 28-(99.5)

**Time period:** 01/20/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	2	3.4		0.3	5.2	5.8	7.4	9.8	11.3	11.8
pH (SU)	59	0	<5	3	5.1		0.3	5.2	5.8	7.4	9.8	11.3	11.8
	58	0	<6	3	5.2		4.7	6.1	6.3	6.5	6.7	7.1	8
	58	0	>9	0	0		4.7	6.1	6.3	6.5	6.7	7.1	8
Salinity (ppt)	59	0	N/A				0.02	0.03	0.04	0.05	0.06	0.08	1.77
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				71	84	100	118	142	175	3277
Water Temperature (°C)	59	0	>32	0	0		4.8	6.6	10.4	18.4	25.9	27.3	31.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				24	24	30	32	36	40	44
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8.1	12	24.8	32
Turbidity (NTU)	59	0	>50	0	0		2.3	4.3	6.2	8.4	15	23	35
<b>Nutrients (mg/L)</b>													
NH3 as N	58	5	N/A				0.02	0.02	0.03	0.04	0.07	0.1	0.2
NO2 + NO3 as N	58	1	N/A				0.02	0.21	0.37	0.49	0.6	0.74	0.92
TKN as N	57	0	N/A				0.42	0.5	0.56	0.65	0.74	0.79	2.1
Total Phosphorus	58	0	N/A				0.06	0.06	0.1	0.12	0.15	0.17	0.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	48.4	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:** GRINDLE CRK AT SR 1427 NR BETHEL

**Station #:** O6700000

**Hydrologic Unit Code:** 03020103

**Latitude:** 35.76324

**Longitude:** -77.37805

**Stream class:** C NSW

**Agency:** TPBA

**NC stream index:** 28-100

**Time period:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	80	0	<4	3	3.8		3.3	5.6	7.2	8.9	10.3	11.5	15.8
pH (SU)	80	0	<5	4	5		3.3	5.6	7.2	8.9	10.3	11.5	15.8
	80	0	<6	13	16.2	94.6	5.1	5.8	6.2	6.6	6.8	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	80	0	>9	0	0		5.1	5.8	6.2	6.6	6.8	7.2	7.7
	80	0	N/A				90	128	154	172	191	203	242
Water Temperature (°C)	80	0	>32	0	0		3.8	9.1	13.1	20.8	24.9	28.6	30.1
<b>Other</b>													
TSS (mg/L)	58	9	N/A				2.8	3.1	4.2	6.1	10.2	32.5	100
Turbidity (NTU)	58	0	>50	2	3.4		2.1	5.1	6.5	8.8	13.2	23.1	110
<b>Nutrients (mg/L)</b>													
NH3 as N	58	1	N/A				0.02	0.04	0.06	0.08	0.11	0.16	0.48
NO2 + NO3 as N	58	0	N/A				0.06	0.32	0.61	1.26	1.79	2.35	3.05
TKN as N	58	0	N/A				0.28	0.47	0.58	0.75	0.99	1.35	3.5
Total Phosphorus	55	2	N/A				0.02	0.03	0.05	0.07	0.09	0.17	1.85
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	102.4	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:** GRINDLE CRK AT US 264 AT PACTOLUS

**Station #:** O6798000

**Hydrologic Unit Code:** 03020103

**Latitude:** 35.62426

**Longitude:** -77.22118

**Stream class:** C NSW

**Agency:** TPBA

**NC stream index:** 28-100

**Time period:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.1	6.8	7.3	8.2	9.6	10.7	14.2
pH (SU)	85	0	<5	2	2.4		4.1	6.8	7.3	8.2	9.6	10.7	14.2
	85	0	<6	25	29.4	>99.9	3.2	4.5	5.8	6.4	6.9	7.4	8.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		3.2	4.5	5.8	6.4	6.9	7.4	8.6
	85	0	N/A				59	107	128	150	170	177	194
Water Temperature (°C)	85	0	>32	0	0		3.7	8	11.6	18.5	22.2	24.3	26.2
<b>Other</b>													
TSS (mg/L)	60	12	N/A				2.3	3.1	3.6	5.4	10.8	27.9	153
Turbidity (NTU)	60	0	>50	2	3.3		2.5	3.8	5.9	9.2	14.8	26.9	110
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.01	0.04	0.06	0.08	0.12	0.25	0.39
NO2 + NO3 as N	60	0	N/A				0.54	0.8	1	1.24	1.5	1.83	2.25
TKN as N	60	0	N/A				0.27	0.42	0.59	0.75	0.99	1.24	2.49
Total Phosphorus	57	3	N/A				0.02	0.02	0.04	0.06	0.09	0.13	0.24
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	146.9	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:** 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:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	N/A				0.2	1	2.8	5.2	7.1	10.5	12.1
pH (SU)	85	0	<4.3	0	0		4.6	5.6	6	6.3	6.6	6.8	7.6
	85	0	>9	0	0		4.6	5.6	6	6.3	6.6	6.8	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				74	89	114	135	148	171	530
Water Temperature (°C)	85	0	>32	0	0		1.7	7.3	11.4	19.2	23.6	25.9	27.3
<b>Other</b>													
Turbidity (NTU)	60	0	>50	2	3.3		4.1	5.1	8.4	11	16.8	24.6	400
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.04	0.06	0.09	0.18	0.31	0.54
NO2 + NO3 as N	60	5	N/A				0.01	0.02	0.22	0.48	0.79	1.06	1.65
TKN as N	60	0	N/A				0.48	0.61	0.71	0.88	1.28	1.68	3.29
Total Phosphorus	57	3	N/A				0.02	0.03	0.04	0.07	0.14	0.22	0.74

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	187.7	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:** 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:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	81	0	N/A				0.6	2.4	4.6	6.2	7.9	10.5	12.2
pH (SU)	81	0	<4.3	0	0		4.9	5.8	6.2	6.8	7	7.2	7.7
	81	0	>9	0	0		4.9	5.8	6.2	6.8	7	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	81	0	N/A				82	110	148	206	286	356	845
Water Temperature (°C)	81	0	>32	0	0		2.6	7.7	11.9	19.7	23.9	26.4	29.1
<b>Other</b>													
Turbidity (NTU)	57	0	>50	0	0		3	5.2	7.5	11	15	19.2	45
<b>Nutrients (mg/L)</b>													
NH3 as N	57	2	N/A				0.02	0.04	0.08	0.1	0.18	0.29	0.42
NO2 + NO3 as N	57	1	N/A				0.02	0.13	0.38	0.68	0.99	1.29	2.24
TKN as N	57	0	N/A				0.37	0.62	0.72	0.96	1.2	1.69	2.47
Total Phosphorus	54	1	N/A				0.02	0.04	0.07	0.1	0.17	0.37	1.02
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	190	16	28.1	90.9									

**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:** 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:** 01/20/2010 to 12/01/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	N/A				0.3	2.6	3.8	6	8	10.2	11.1
pH (SU)	59	0	<4.3	0	0		4.4	5.4	5.9	6.2	6.7	6.9	7.5
	59	0	>9	0	0		4.4	5.4	5.9	6.2	6.7	6.9	7.5
Salinity (ppt)	60	0	N/A				0.03	0.03	0.05	0.07	0.3	1.45	6.27
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				80	94	114	152	613	2701	10979
Water Temperature (°C)	60	0	>32	1	1.7		3.5	6.8	10.6	19.1	25.7	29.7	32.1
<b>Other</b>													
Chlorophyll a (ug/L)	55	4	>40	2	3.6		1	1	2	3	9	24	76
Hardness (mg/L)	20	0	N/A				27	30	38	48	80	480	670
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	9.6	12
Turbidity (NTU)	60	0	>50	0	0		2	2.8	3.8	5.2	6.6	9.1	15
<b>Nutrients (mg/L)</b>													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.04	0.08	0.11	0.18
NO2 + NO3 as N	60	5	N/A				0.02	0.02	0.05	0.11	0.18	0.29	0.58
TKN as N	60	0	N/A				0.46	0.56	0.67	0.78	0.96	1.09	2.3
Total Phosphorus	60	0	N/A				0.03	0.06	0.07	0.11	0.14	0.17	0.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	44.1	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:** 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:** 01/06/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	100	0	<5	7	7		0.8	5.2	6.3	8.1	10.4	11.3	13.2
pH (SU)	100	0	<6.8	32	32	> 99.9	5.3	6.2	6.6	7	7.4	8	8.7
	100	0	>8.5	1	1		5.3	6.2	6.6	7	7.4	8	8.7
Salinity (ppt)	100	0	N/A				0.02	0.03	0.04	0.09	0.74	3.23	7.08
Spec. conductance (umhos/cm at 25°C)	99	0	N/A				66	88	109	194	1475	5865	12363
Water Temperature (°C)	100	0	>32	2	2		1.5	5.5	10	19.9	27.4	30.4	32.6
<b>Other</b>													
Chlorophyll a (ug/L)	2	0	>40	1	50		11	11	11	30	50	50	50
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	9.8	11.9	12
Turbidity (NTU)	66	0	>25	1	1.5		4.2	5	5.8	7.4	10.5	17.6	28
<b>Nutrients (mg/L)</b>													
NH3 as N	35	13	N/A				0.02	0.02	0.02	0.02	0.05	0.07	0.12
NO2 + NO3 as N	35	9	N/A				0.02	0.02	0.02	0.38	0.49	0.69	0.79
TKN as N	35	0	N/A				0.43	0.54	0.58	0.69	0.75	0.8	0.94
Total Phosphorus	35	0	N/A				0.05	0.06	0.08	0.11	0.13	0.15	0.18
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
64	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:** 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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	3	4.5		4.1	5.8	7.9	9.6	11	12.1	14.2
pH (SU)	66	0	<6.8	8	12.1	66	6.3	6.7	7.1	7.6	8	8.4	9.1
	66	0	>8.5	5	7.6		6.3	6.7	7.1	7.6	8	8.4	9.1
Salinity (ppt)	66	0	N/A				0.02	0.04	0.14	1.3	3.88	6.16	10.9
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				68	105	285	2416	7002	10982	17646
Water Temperature (°C)	66	0	>32	1	1.5		2.8	6.5	10.4	19.9	26.5	30.5	32.2
<b>Other</b>													
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	6.9	13.8	14
Turbidity (NTU)	66	0	>25	3	4.5		3.1	4.7	6.2	8.4	11	14.6	30

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
64	15.7	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:** 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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	1	1.5		4.6	8	8.6	9.9	11.6	13.3	18.2
pH (SU)	66	0	<6.8	2	3		6.5	7.2	7.5	8	8.3	8.6	9
Salinity (ppt)	66	0	>8.5	8	12.1	66	6.5	7.2	7.5	8	8.3	8.6	9
Spec. conductance (umhos/cm at 25°C)	66	0	N/A				0.14	0.4	0.9	2.49	5.14	8.64	11.34
Water Temperature (°C)	65	0	N/A				294	771	1755	4714	9171	14972	19209
Water Temperature (°C)	66	0	>32	0	0		2.3	6.9	10	20.1	26.8	30.7	32
<b>Other</b>													
TSS (mg/L)	19	4	N/A				6.2	6.2	7.2	10	14	15	24
Turbidity (NTU)	66	0	>25	1	1.5		2.5	3.6	5.3	8.2	11.2	16	28
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
64	9.7	1	1.6										

**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:** 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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	0	0		5.9	7.2	8.3	10	11.4	12.7	14.7
pH (SU)	66	0	<6.8	3	4.5		6.1	7	7.5	8	8.3	8.5	9.1
	66	0	>8.5	6	9.1		6.1	7	7.5	8	8.3	8.5	9.1
Salinity (ppt)	66	0	N/A				0.03	0.51	1.68	4.38	7.27	10.41	12.93
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				82	1085	3055	7823	12774	17731	21602
Water Temperature (°C)	66	0	>32	1	1.5		2.1	6.6	9.4	20.2	26.4	29.8	32.3
<b>Other</b>													
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	6.5	10.8	14.9	16
Turbidity (NTU)	66	1	>25	0	0		1	3.4	4.8	6.2	9.6	13.9	25

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
64	5.3	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 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:** 01/12/2010 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	<5	0	0		6.1	6.1	7.5	9.3	10.8	13.3	14.9
pH (SU)	14	0	<6.8	5	35.7	99.1	6	6.1	6.7	7.4	7.7	8	8.2
	14	0	>8.5	0	0		6	6.1	6.7	7.4	7.7	8	8.2
Salinity (ppt)	14	0	N/A				0.05	0.24	0.58	1.24	4.27	4.92	5.06
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				117	462	1102	2300	7650	8748	8990
Water Temperature (°C)	14	0	>32	0	0		2.5	4	8.8	20.7	27.2	30.7	31.2
<b>Other</b>													
TSS (mg/L)	2	1	N/A				6.2	6.2	6.2	9.6	13	13	13
Turbidity (NTU)	14	0	>25	1	7.1		4.8	5.2	6.8	9.6	13	27	31

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
14	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:** 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:** 01/12/2010 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	<5	0	0		5.9	6.2	7.7	9.4	11.4	13.2	14.7
pH (SU)	14	0	<6.8	2	14.3	58.4	6.4	6.6	7	7.4	7.9	8.2	8.2
	14	0	>8.5	0	0		6.4	6.6	7	7.4	7.9	8.2	8.2
Salinity (ppt)	14	0	N/A				0.07	0.24	0.83	1.76	4.24	5.12	5.56
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				155	466	1566	3245	7592	9079	9828
Water Temperature (°C)	14	0	>32	0	0		1.8	3.6	8.6	20.6	27.4	29.8	30.6
<b>Other</b>													
TSS (mg/L)	3	0	N/A				9.5	9.5	9.5	12	15	15	15
Turbidity (NTU)	14	0	>25	1	7.1		5	5.1	5.7	8.4	12.2	25.5	32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
14	3.9	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:** 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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	0	0		5.9	6.9	7.9	9.4	11.1	13.2	15
pH (SU)	66	0	<6.8	0	0		7.2	7.4	7.7	7.9	8.2	8.4	8.8
	66	0	>8.5	5	7.6		7.2	7.4	7.7	7.9	8.2	8.4	8.8
Salinity (ppt)	66	0	N/A				1.49	3.34	5.19	8.76	11.04	14.27	15.47
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				2747	6010	9122	15022	18693	23650	25394
Water Temperature (°C)	66	0	>32	2	3		3.5	6.7	11.4	20.2	27.2	30.4	33
<b>Other</b>													
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	9.1	11.5	13.9	14
Turbidity (NTU)	66	1	>25	2	3		1	3.1	4.2	6	8.6	12	65

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
64	6.4	1	1.6	

**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:** PAMLICO RIV AT CM 5 NR CORE POINT

**Station #:** O8498000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.43048

**Longitude:** -76.84144

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(5)

**Time period:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	0	0		6.2	7.2	8.2	9.6	11.6	12.6	15
pH (SU)	66	0	<6.8	1	1.5		6.7	7.2	7.6	8	8.2	8.4	9
	66	0	>8.5	3	4.5		6.7	7.2	7.6	8	8.2	8.4	9
Salinity (ppt)	66	0	N/A				1.1	2.5	4.38	7.22	10.59	12.67	14.8
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				2059	4552	7773	12852	17966	21244	24438
Water Temperature (°C)	66	0	>32	1	1.5		2.6	6.5	9.8	19.2	26.4	29.5	32.3

<b>Other</b>													
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	7.3	11.4	12	19
Turbidity (NTU)	66	0	>25	0	0		1.8	2.9	3.6	4.8	7.3	9.6	22

<b>Fecal Coliform Screening(#/100mL)</b>												
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>								
64	2.4	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:** 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:** 01/12/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	0	0		6.7	7.6	8.1	9.5	11.2	12.7	14.8
pH (SU)	66	0	<6.8	0	0		7.1	7.6	7.8	8	8.1	8.3	8.7
Salinity (ppt)	66	0	>8.5	4	6.1		7.1	7.6	7.8	8	8.1	8.3	8.7
Spec. conductance (umhos/cm at 25°C)	66	0	N/A				1.83	3.48	6.19	9.38	12.44	14.25	15.81
Water Temperature (°C)	65	0	N/A				3379	6289	10853	16187	20905	23670	25961
Water Temperature (°C)	66	0	>32	0	0		2.7	6	10	19.4	26	29.3	31
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		20	20	20	20	20	20	20
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.5	12	13.8	30
Turbidity (NTU)	65	1	>25	0	0		1	2.4	3	3.7	5	7.3	16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
63	1.4	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)

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**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Resources  
Basinwide Assessment Report

**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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	0	0		6.7	7.5	8	9.2	11	12.9	15.1
pH (SU)	66	0	<6.8	0	0		7.4	7.7	7.9	8	8.2	8.4	8.6
	66	0	>8.5	2	3		7.4	7.7	7.9	8	8.2	8.4	8.6
Salinity (ppt)	66	0	N/A				2.32	3.61	6.74	9.97	12.54	14.48	16.21
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				4255	6517	11638	17007	21016	24000	26571
Water Temperature (°C)	66	0	>32	0	0		2.6	6.1	10.5	19.5	26.1	29.4	31.2
<b>Other</b>													
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.2	8.4	11.8	12
Turbidity (NTU)	66	0	>25	0	0		1.5	2.4	3.2	3.9	5.4	6.7	15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
64	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:** 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:** 01/12/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	0	0		5.5	6.4	7.5	9	10.9	12.8	14.2
pH (SU)	66	0	<6.8	0	0		7.1	7.5	7.7	7.8	8	8.3	8.5
	66	0	>8.5	0	0		7.1	7.5	7.7	7.8	8	8.3	8.5
Salinity (ppt)	66	0	N/A				1.02	3.46	6.12	8.14	10.92	13.7	14.51
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				1905	6386	10652	14277	18514	23035	24111
Water Temperature (°C)	66	0	>32	0	0		2.1	6	9.9	19	25.8	28.5	30.6
<b>Other</b>													
TSS (mg/L)	20	4	N/A				6.2	6.2	6.8	8.6	11.5	16.9	27
Turbidity (NTU)	66	0	>25	0	0		1.5	3.1	4.5	6.2	7.8	12.3	23
<b>Nutrients (mg/L)</b>													
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				0.67	0.67	0.67	0.67	0.67	0.67	0.67
Total Phosphorus	1	0	N/A				0.06	0.06	0.06	0.06	0.06	0.06	0.06
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
64	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:** 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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	66	0	<5	0	0		7	7.6	7.9	9	11	13	14.4
pH (SU)	66	0	<6.8	0	0		7	7.6	7.8	8	8.2	8.3	8.8
	66	0	>8.5	3	4.5		7	7.6	7.8	8	8.2	8.3	8.8
Salinity (ppt)	66	0	N/A				3.98	5.51	7.22	10.96	13.57	15.27	16.48
Spec. conductance (umhos/cm at 25°C)	65	0	N/A				7153	9736	12514	18669	22662	25154	26931
Water Temperature (°C)	66	0	>32	0	0		1.9	5.8	9.9	18.9	26	28.8	30.5
<b>Other</b>													
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	8.2	12	12
Turbidity (NTU)	66	1	>25	0	0		1	2.2	2.9	3.5	4.1	5.9	8.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
64	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  
Basinwide Assessment Report

**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:** 01/06/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<5	1	1.9		4.1	5.8	7.1	9.2	11	12.7	13.6
pH (SU)	51	0	<6.8	3	5.9		6.5	6.9	7.3	7.5	7.8	8.1	8.5
	51	0	>8.5	0	0		6.5	6.9	7.3	7.5	7.8	8.1	8.5
Salinity (ppt)	54	0	N/A				1.92	5.48	7.65	10.3	12.38	14.39	17.39
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				3538	9689	13276	17558	20776	23768	28297
Water Temperature (°C)	54	0	>32	0	0		3.3	6.6	10.7	18.4	25.6	29	31.2
<b>Other</b>													
Chlorophyll a (ug/L)	50	0	>40	8	16	87.7	6	9	14	24	34	44	56
TSS (mg/L)	17	5	N/A				6.2	6.2	6.7	8.8	12	18	18
Turbidity (NTU)	52	0	>25	0	0		1.2	2.8	4.2	5.2	8.1	9.9	24
<b>Nutrients (mg/L)</b>													
NH3 as N	53	39	N/A				0.02	0.02	0.02	0.02	0.02	0.1	0.21
NO2 + NO3 as N	53	28	N/A				0.02	0.02	0.02	0.02	0.14	0.43	0.74
TKN as N	52	0	N/A				0.52	0.69	0.78	0.96	1.1	1.2	1.5
Total Phosphorus	52	0	N/A				0.02	0.03	0.03	0.05	0.07	0.12	0.19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
52	10.6	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:** 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:** 01/06/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<5	4	6.7		3.8	5.5	6.4	8.5	10.4	11.9	12.7
pH (SU)	57	0	<6.8	8	14	79.3	5.4	6.6	7	7.5	7.6	7.8	8.3
	57	0	>8.5	0	0		5.4	6.6	7	7.5	7.6	7.8	8.3
Salinity (ppt)	60	0	N/A				1.53	3.91	6.08	10.28	12.22	14.6	16.44
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				2829	7028	10705	17490	20516	24135	26877
Water Temperature (°C)	60	0	>32	0	0		3.1	6.7	12.1	20.2	26.8	28.8	31.6
<b>Other</b>													
Chlorophyll a (ug/L)	55	0	>40	5	9.1		2	8	11	19	31	44	59
TSS (mg/L)	19	5	N/A				6.2	6.2	7.5	9	12	24	25
Turbidity (NTU)	57	0	>25	2	3.5		2	3.4	4.3	6.2	8	12.8	45
<b>Nutrients (mg/L)</b>													
NH3 as N	58	18	N/A				0.02	0.02	0.02	0.04	0.08	0.11	0.27
NO2 + NO3 as N	58	10	N/A				0.02	0.02	0.03	0.07	0.35	1.31	2.6
TKN as N	58	0	N/A				0.61	0.73	0.82	0.95	1.1	1.3	1.7
Total Phosphorus	57	0	N/A				0.02	0.03	0.04	0.05	0.08	0.12	0.19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	11.9	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:** 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:** 01/13/2010 to 08/06/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	N/A				0.9	2.7	5.1	6.7	7.8	9	9.6
pH (SU)	56	0	<4.3	50	89.3	> 99.9	1.9	3.3	3.4	3.6	3.8	4.5	5.4
	56	0	>9	0	0		1.9	3.3	3.4	3.6	3.8	4.5	5.4
Salinity (ppt)	56	0	N/A				0.01	0.04	0.05	0.06	0.07	0.07	0.11
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				65	106	125	144	156	171	226
Water Temperature (°C)	56	0	>32	0	0		4.7	7.6	9.8	14.6	20.9	22.9	24.7
<b>Other</b>													
Hardness (mg/L)	17	0	N/A				14	14	16	16	24	30	30
TSS (mg/L)	18	14	N/A				6.2	6.2	6.2	6.2	10.5	12.6	18
Turbidity (NTU)	56	0	>50	1	1.8		1.2	1.7	2.2	5.6	10.4	20.6	60
<b>Nutrients (mg/L)</b>													
NH3 as N	56	10	N/A				0.02	0.02	0.02	0.1	0.33	0.78	2.2
NO2 + NO3 as N	56	15	N/A				0.02	0.02	0.02	0.1	0.47	1.46	2.8
TKN as N	55	0	N/A				0.71	0.9	1	1.3	1.8	2.66	5.1
Total Phosphorus	56	19	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	24.1	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:** 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:** 01/06/2010 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	N/A				2	2.5	4.6	5.8	7.8	8.3	8.6
pH (SU)	14	0	<4.3	7	50	> 99.9	2.3	2.6	3.3	4.2	4.8	5.4	5.4
	14	0	>9	0	0		2.3	2.6	3.3	4.2	4.8	5.4	5.4
Salinity (ppt)	14	0	N/A				0.02	0.02	0.02	0.03	0.05	0.06	0.07
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				73	73	74	85	125	149	163
Water Temperature (°C)	14	0	>32	0	0		4	5	8.7	20.4	25.4	30.4	30.8
<b>Other</b>													
TSS (mg/L)	14	6	N/A				6.2	6.2	6.2	6.6	16.2	293.5	490
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.09	0.1	0.13	0.2	0.47	0.81	0.9
NO2 + NO3 as N	14	11	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.06
TKN as N	14	0	N/A				1.6	1.65	1.8	2.1	3.02	4.95	6.8
Total Phosphorus	14	0	N/A				0.03	0.03	0.04	0.09	0.16	0.5	0.82
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
14	8.7	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:** 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:** 01/06/2010 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	N/A				2	2	2.2	6	8.8	9.8	9.9
pH (SU)	14	0	<4.3	8	57.1	> 99.9	3	3.2	3.6	3.9	4.5	4.6	4.7
	14	0	>9	0	0		3	3.2	3.6	3.9	4.5	4.6	4.7
Salinity (ppt)	14	0	N/A				0.02	0.02	0.03	0.03	0.05	0.07	0.07
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				76	77	86	94	120	160	165
Water Temperature (°C)	14	0	>32	0	0		3.9	4.8	7.8	18.6	24.4	28.6	28.8
<b>Other</b>													
TSS (mg/L)	14	10	N/A				6.2	6.2	6.2	6.2	6.7	11.4	14
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.08	0.08	0.09	0.2	0.98	1.15	1.2
NO2 + NO3 as N	14	8	N/A				0.02	0.02	0.02	0.02	0.02	0.14	0.16
TKN as N	14	0	N/A				1.6	1.6	1.7	2	3.08	3.45	3.5
Total Phosphorus	14	0	N/A				0.02	0.02	0.04	0.07	0.24	0.32	0.33
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
14	55.6	4	28.6	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:** 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:** 01/06/2010 to 07/19/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	14	0	N/A				5.7	5.8	6.2	8.3	9.4	10.5	10.7
pH (SU)	14	0	<4.3	7	50	> 99.9	3.4	3.4	3.6	4.4	5.8	6.1	6.2
	14	0	>9	0	0		3.4	3.4	3.6	4.4	5.8	6.1	6.2
Salinity (ppt)	14	0	N/A				0.03	0.03	0.03	0.04	0.06	0.06	0.06
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				78	80	86	112	137	147	149
Water Temperature (°C)	14	0	>32	0	0		3.5	4.7	7.3	19.2	26.2	30.4	30.9
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.03	0.06	0.09	0.17	0.8	1.3	1.4
NO2 + NO3 as N	14	0	N/A				0.02	0.02	0.04	0.09	0.21	1.16	1.7
TKN as N	14	0	N/A				1.6	1.6	1.68	1.95	3.35	4.05	4.3
Total Phosphorus	14	0	N/A				0.02	0.02	0.04	0.08	0.28	0.63	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:** 01/06/2010 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	N/A				1.8	1.8	2.6	4.3	9.9	11.2	11.5
pH (SU)	14	0	<4.3	10	71.4	> 99.9	3.3	3.4	3.5	3.7	4.6	5.4	5.4
	14	0	>9	0	0		3.3	3.4	3.5	3.7	4.6	5.4	5.4
Salinity (ppt)	14	0	N/A				0.03	0.03	0.03	0.04	0.04	0.04	0.05
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				79	83	90	96	105	115	118
Water Temperature (°C)	14	0	>32	0	0		3.4	4	6.7	16.6	23.6	26	26.1
<b>Other</b>													
TSS (mg/L)	14	9	N/A				6.2	6.2	6.2	6.2	9.4	13	14
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.15	0.18	0.27	0.53	0.98	2.25	3.3
NO2 + NO3 as N	14	8	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.07
TKN as N	14	0	N/A				1.7	1.75	2.08	3	3.92	5.9	7.2
Total Phosphorus	14	0	N/A				0.04	0.04	0.06	0.14	0.34	0.62	0.78
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
14	22	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:** 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:** 01/06/2010 to 07/06/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	10	0	N/A				2	2	2.4	10.2	11.4	13.2	13.2
pH (SU)	10	0	<4.3	0	0		5	5	5.6	5.9	6.3	6.7	6.7
	10	0	>9	0	0		5	5	5.6	5.9	6.3	6.7	6.7
Salinity (ppt)	10	0	N/A				0.06	0.06	0.07	0.08	0.09	0.12	0.12
Spec. conductance (umhos/cm at 25°C)	10	0	N/A				143	144	159	169	198	247	250
Water Temperature (°C)	10	0	>32	0	0		0.8	1.2	5.8	9.9	20.4	24.1	24.4
<b>Other</b>													
TSS (mg/L)	10	0	N/A				6.2	6.3	7.8	22	92	110	110
<b>Nutrients (mg/L)</b>													
NH3 as N	10	0	N/A				0.02	0.02	0.04	0.21	0.47	0.96	1
NO2 + NO3 as N	10	3	N/A				0.02	0.02	0.02	2.95	5.1	6.51	6.6
TKN as N	10	0	N/A				1.7	1.71	1.8	2.1	10.1	14.9	15
Total Phosphorus	10	0	N/A				0.06	0.06	0.07	0.14	1.45	2.26	2.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
10	136.6	3	30	67.7									

**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:** 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:** 01/06/2010 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	N/A				3	3.6	4.6	6.6	10	11.4	11.6
pH (SU)	14	0	<4.3	5	35.7	99.1	3.6	3.6	3.8	4.4	6.2	6.5	6.6
	14	0	>9	0	0		3.6	3.6	3.8	4.4	6.2	6.5	6.6
Salinity (ppt)	14	0	N/A				0.03	0.03	0.03	0.04	0.05	0.06	0.07
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				78	79	85	104	124	152	163
Water Temperature (°C)	14	0	>32	0	0		3.3	4.3	6.8	17.5	25.6	29.5	29.5
<b>Other</b>													
TSS (mg/L)	14	7	N/A				6.2	6.2	6.2	8	16.2	29	40
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.12	0.12	0.18	0.36	0.76	1.1	1.1
NO2 + NO3 as N	14	5	N/A				0.02	0.02	0.02	0.1	0.43	1.3	1.4
TKN as N	14	0	N/A				1.7	1.8	2	2.45	3.92	4.55	4.7
Total Phosphorus	14	0	N/A				0.04	0.04	0.06	0.12	0.43	0.57	0.6
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
14	65.6	1	7.1										

**Key:**

# result: number of observations

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

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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:** Canal B at NC 45 nr Ponzer

**Station #:** O9757395

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.60040

**Longitude:** -76.52920

**Stream class:** C Sw NSW

**Agency:** NCSPPST

**NC stream index:** 29-34-2-2

**Time period:** 01/06/2010 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	N/A				3.5	3.6	4	5.6	9.4	11	11.3
pH (SU)	14	0	<4.3	6	42.9	99.9	3.1	3.4	3.8	4.4	6.2	6.6	6.8
	14	0	>9	0	0		3.1	3.4	3.8	4.4	6.2	6.6	6.8
Salinity (ppt)	14	0	N/A				0.03	0.04	0.04	0.06	0.4	0.59	0.67
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				93	94	103	130	762	1127	1268
Water Temperature (°C)	14	0	>32	0	0		2.9	4	6.8	21	26.1	30	30.3
<b>Other</b>													
TSS (mg/L)	14	11	N/A				6.2	6.2	6.2	6.2	7	12	12
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.06	0.06	0.1	0.21	0.34	0.42	0.44
NO2 + NO3 as N	14	1	N/A				0.02	0.04	0.11	0.2	0.67	1.55	1.6
TKN as N	14	0	N/A				1.3	1.45	1.75	2.05	2.2	3.3	4.1
Total Phosphorus	14	0	N/A				0.04	0.04	0.05	0.1	0.16	0.26	0.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
14	41.5	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:** Canal D beside DeHoog Rd at Pungo NWR

**Station #:** O9757540

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.65680      **Longitude:** -76.47840

**Stream class:** C Sw NSW

**Agency:** NCS PST

**NC stream index:** 29-34-2-5

**Time period:** 01/06/2010 to 07/19/2010

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	14	0	N/A				2.7	2.8	3.2	4.6	7	8.4	8.7
pH (SU)	14	0	<4.3	14	100	> 99.9	3	3.2	3.4	3.6	3.8	3.9	3.9
	14	0	>9	0	0		3	3.2	3.4	3.6	3.8	3.9	3.9
Salinity (ppt)	14	0	N/A				0.04	0.04	0.04	0.05	0.05	0.06	0.06
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				100	104	108	123	132	147	149
Water Temperature (°C)	14	0	>32	0	0		3.4	3.9	6.7	19.3	27.4	29	29.8
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.08	0.08	0.11	0.19	0.44	0.62	0.75
NO2 + NO3 as N	14	10	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.04
TKN as N	14	0	N/A				2	2.05	2.1	2.5	3.22	3.85	4.2
Total Phosphorus	14	0	N/A				0.02	0.02	0.04	0.08	0.19	0.29	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:** Canal D beside DeHoog Rd nr Ponzer

**Station #:** O9757580

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.60640

**Longitude:** -76.49010

**Stream class:** C Sw NSW

**Agency:** NCS PST

**NC stream index:** 29-34-2-5

**Time period:** 01/06/2010 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	N/A				2.3	2.3	3.1	6.4	10	11.4	11.4
pH (SU)	14	0	<4.3	8	57.1	> 99.9	3.4	3.4	3.6	4	5.8	6.4	6.5
	14	0	>9	0	0		3.4	3.4	3.6	4	5.8	6.4	6.5
Salinity (ppt)	14	0	N/A				0.04	0.04	0.04	0.04	0.06	0.06	0.07
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				97	98	107	118	136	153	161
Water Temperature (°C)	14	0	>32	0	0		3.2	4	6.8	17.6	25.2	28.8	29
<b>Nutrients (mg/L)</b>													
NH3 as N	14	0	N/A				0.14	0.16	0.19	0.28	0.57	0.86	0.87
NO2 + NO3 as N	14	5	N/A				0.02	0.02	0.02	0.12	0.48	1.45	1.7
TKN as N	14	0	N/A				2	2	2.15	2.25	2.4	2.65	2.8
Total Phosphorus	14	0	N/A				0.03	0.04	0.05	0.1	0.2	0.26	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

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.57135

**Longitude:** -76.50152

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/06/2010 to 12/11/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	60	0	<5	10	16.7	92.7	0	4.4	5.6	7.2	8.7	10.2	11.9
pH (SU)	57	0	<6.8	27	47.4	> 99.9	5	6	6.3	6.8	7	7.3	8.3
	57	0	>8.5	0	0		5	6	6.3	6.8	7	7.3	8.3
Salinity (ppt)	60	0	N/A				0.19	2.29	3.22	5.8	7.68	10.06	11.71
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				384	4199	5641	10240	13356	17142	19764
Water Temperature (°C)	60	0	>32	0	0		3.2	6.9	12.1	20.2	26.4	29.1	31.1
<b>Other</b>													
Chlorophyll a (ug/L)	56	2	>40	1	1.8		1	2	3	9	15	26	160
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	7.4	12	13.8	24
Turbidity (NTU)	58	0	>25	1	1.7		2.6	3.3	4.3	5.8	7.6	12.2	32
<b>Nutrients (mg/L)</b>													
NH3 as N	59	6	N/A				0.02	0.02	0.05	0.09	0.14	0.19	0.28
NO2 + NO3 as N	58	6	N/A				0.02	0.02	0.08	0.18	0.58	1	1.8
TKN as N	58	0	N/A				0.84	0.97	1.08	1.3	1.52	1.71	2.1
Total Phosphorus	58	0	N/A				0.03	0.04	0.05	0.06	0.08	0.1	0.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	43.5	3	5.2										

**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:** 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:** 01/12/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	64	0	<5	0	0		6.1	7.6	7.9	8.8	10.9	13	14.7
pH (SU)	64	0	<6.8	0	0		7.4	7.8	7.8	8	8.1	8.3	8.6
	64	0	>8.5	3	4.7		7.4	7.8	7.8	8	8.1	8.3	8.6
Salinity (ppt)	64	0	N/A				4.85	6.65	9.3	12.64	14.97	16.14	18
Spec. conductance (umhos/cm at 25°C)	63	0	N/A				8632	11621	15905	21000	24739	26447	29186
Water Temperature (°C)	64	0	>32	0	0		1.9	5.7	9.7	19.5	26.4	29	30.3
<b>Other</b>													
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.8	11.8	16.8	20
Turbidity (NTU)	65	2	>25	0	0		1	2.1	2.6	3.3	4.6	6.5	7.6
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
63	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  
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:** 01/12/2010 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	<5	0	0		6.7	7.1	7.9	9.3	12.8	14	14.3
pH (SU)	14	0	<6.8	0	0		7.5	7.6	7.7	8	8.2	8.6	8.6
	14	0	>8.5	1	7.1		7.5	7.6	7.7	8	8.2	8.6	8.6
Salinity (ppt)	14	0	N/A				5.82	6.08	6.91	8.61	10.4	13.5	14.05
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				10260	10696	12090	14836	17676	22470	23309
Water Temperature (°C)	14	0	>32	0	0		2.3	4	7.8	20.2	27.1	29.6	29.6
<b>Other</b>													
TSS (mg/L)	2	0	N/A				6.8	6.8	6.8	7.4	8	8	8
Turbidity (NTU)	14	0	>25	0	0		3.4	3.4	3.5	4.7	5.5	7.4	7.9
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
14	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)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/12/2010 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	14	0	<5	0	0		7.1	7.3	7.9	9	13.4	14	14
pH (SU)	14	0	<6.8	0	0		7.4	7.4	7.7	8.1	8.2	8.5	8.5
	14	0	>8.5	0	0		7.4	7.4	7.7	8.1	8.2	8.5	8.5
Salinity (ppt)	14	0	N/A				5.2	5.26	5.47	7.6	9.32	12.68	13.02
Spec. conductance (umhos/cm at 25°C)	14	0	N/A				9227	9334	9684	13200	15970	21224	21727
Water Temperature (°C)	14	0	>32	0	0		1.7	3.8	8.3	20.6	27.4	30	30.1
<b>Other</b>													
TSS (mg/L)	3	1	N/A				11	11	11	12	18	18	18
Turbidity (NTU)	14	0	>25	0	0		2.4	2.4	3.7	4.6	5.6	10	12
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
14	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

## White Oak

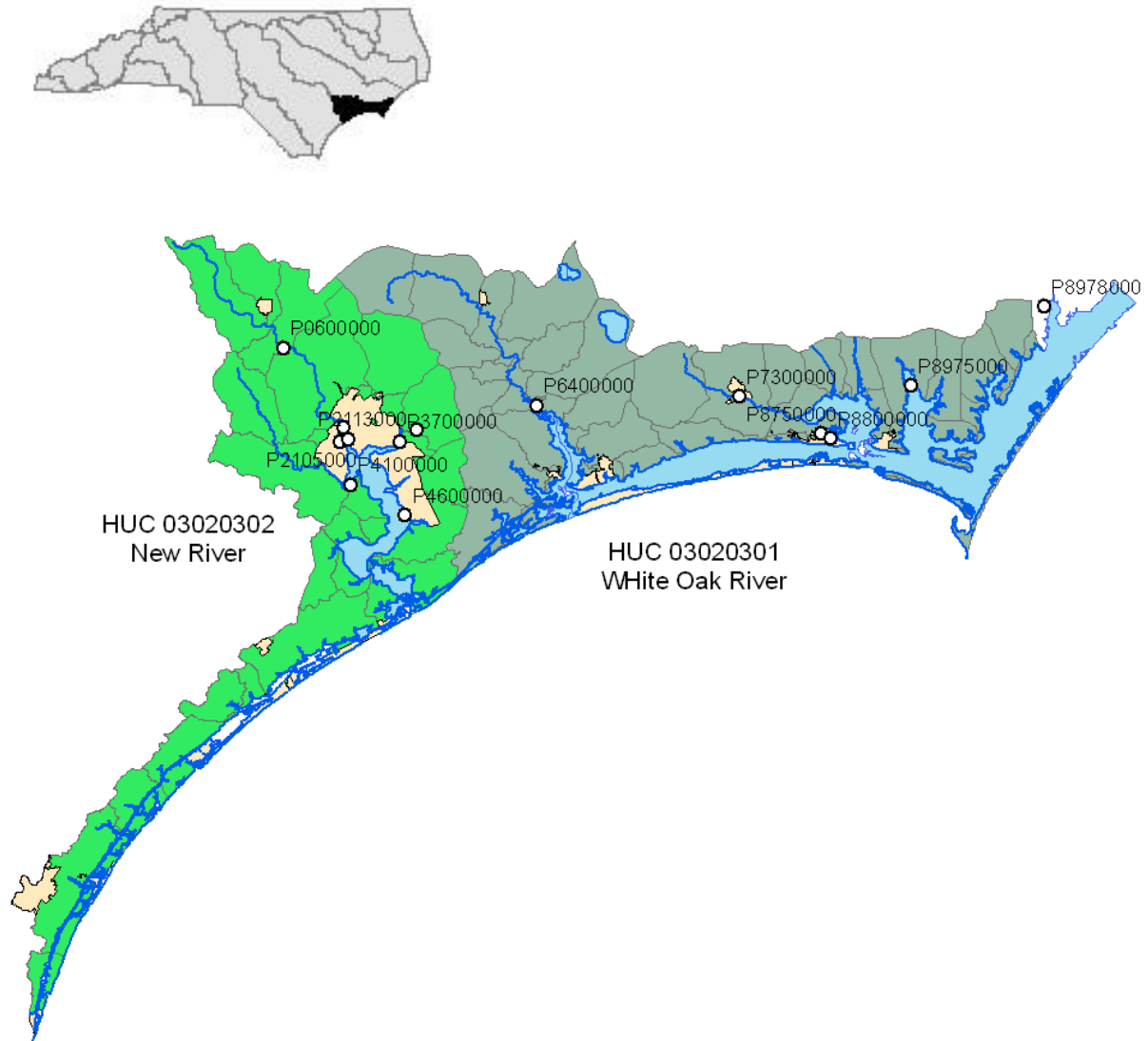


Figure WOK-1. White Oak River basin ambient monitoring station locations.

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

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Table WOK-1. AMS monitoring stations in the White Oak River basin.

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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	1	1.8		1.2	5.9	6.5	7.8	9.3	10.3	11.4
pH (SU)	56	0	<5	2	3.6		1.2	5.9	6.5	7.8	9.3	10.3	11.4
	55	0	<6	3	5.5		5.8	6.1	6.7	7.1	7.2	7.3	7.5
Salinity (ppt)	55	0	>9	0	0		5.8	6.1	6.7	7.1	7.2	7.3	7.5
	57	0	N/A				0.04	0.06	0.1	0.13	0.17	0.19	0.22
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				98	145	209	260	339	387	440
Water Temperature (°C)	56	0	>32	0	0		5.5	7.6	10.7	17.3	22.8	24.8	25.9
<b>Other</b>													
Chlorophyll a (ug/L)	54	35	>40	0	0		1	1	1	1	1	2	10
Hardness (mg/L)	19	0	N/A				51	58	89	110	160	180	230
TSS (mg/L)	19	14	N/A				6.2	6.2	6.2	6.2	12	24	62
Turbidity (NTU)	57	0	>50	0	0		1.4	2.2	2.8	3.9	6.8	14	45
<b>Nutrients (mg/L)</b>													
NH3 as N	57	14	N/A				0.02	0.02	0.02	0.03	0.06	0.14	0.28
NO2 + NO3 as N	57	0	N/A				0.02	0.85	1.2	1.5	1.9	2.4	2.8
TKN as N	57	0	N/A				0.29	0.39	0.45	0.62	0.78	1.2	1.5
Total Phosphorus	57	0	N/A				0.05	0.07	0.08	0.12	0.18	0.28	0.52
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	204.7	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:** 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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<5	3	5.4		0.7	6.1	7.4	9.4	10.9	12.4	14.1
pH (SU)	56	0	<6.8	3	5.4		6.6	6.9	7.1	7.6	8	8.3	8.7
	56	0	>8.5	2	3.6		6.6	6.9	7.1	7.6	8	8.3	8.7
Salinity (ppt)	57	0	N/A				0.09	0.42	1.3	4.25	7.44	11.96	19.32
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				205	813	2405	7605	12937	19993	30935
Water Temperature (°C)	58	0	>32	1	1.7		4.5	7.6	12	22.6	27.9	30.6	32.8
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	1	100		57	57	57	57	57	57	57
TSS (mg/L)	21	8	N/A				6.2	6.2	6.2	7	8.2	11.3	13
Turbidity (NTU)	58	0	>25	0	0		3.1	3.6	4.5	5.6	7.7	10.2	18
<b>Nutrients (mg/L)</b>													
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				0.18	0.18	0.18	0.18	0.18	0.18	0.18
TKN as N	1	0	N/A				0.94	0.94	0.94	0.94	0.94	0.94	0.94
Total Phosphorus	1	0	N/A				0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	53	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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<5	5	8.9		1.7	5.4	7.1	9.6	11	13.1	16.5
pH (SU)	56	0	<6.8	2	3.6		6.6	6.9	7.2	7.7	8	8.3	8.8
	56	0	>8.5	2	3.6		6.6	6.9	7.2	7.7	8	8.3	8.8
Salinity (ppt)	57	0	N/A				0.84	1.79	3.04	6.83	10.19	13.46	20.52
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				1591	3412	5608	11583	17219	22017	32830
Water Temperature (°C)	58	0	>32	1	1.7		4.5	8.7	12.9	23.1	28	31.3	34
<b>Other</b>													
Chlorophyll a (ug/L)	57	0	>40	15	26.3	>99.9	1	3	9	25	42	92	163
TSS (mg/L)	21	8	N/A				6.2	6.2	6.2	8	11.5	16.8	20
Turbidity (NTU)	58	0	>25	0	0		2.1	3.4	4.8	7	8.6	15.1	20
<b>Nutrients (mg/L)</b>													
NH3 as N	58	35	N/A				0.02	0.02	0.02	0.02	0.06	0.12	0.32
NO2 + NO3 as N	58	20	N/A				0.02	0.02	0.02	0.13	0.44	0.76	1.2
TKN as N	57	0	N/A				0.56	0.61	0.77	0.92	1.1	1.24	1.9
Total Phosphorus	57	0	N/A				0.04	0.06	0.09	0.11	0.18	0.22	0.34
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	68	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:** 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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<5	1	1.8		2.9	6.4	7.4	8.8	11.6	13.2	16.7
pH (SU)	56	0	<6.8	1	1.8		6.7	7.2	7.5	7.9	8.1	8.5	9.1
	56	0	>8.5	3	5.4		6.7	7.2	7.5	7.9	8.1	8.5	9.1
Salinity (ppt)	57	0	N/A				1.88	3.28	5.64	9.63	13.39	16.13	21.94
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				3484	5934	9964	16417	22276	26292	34890
Water Temperature (°C)	58	0	>32	1	1.7		3.4	8	12.8	23.4	28.6	30.9	32.2
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		30	30	30	30	30	30	30
TSS (mg/L)	20	5	N/A				6.2	6.2	6.4	8.4	11.5	16.9	82
Turbidity (NTU)	58	0	>25	1	1.7		2.3	3	3.9	5.8	7.6	11	35
<b>Nutrients (mg/L)</b>													
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	0	N/A				0.29	0.29	0.29	0.29	0.29	0.29	0.29
TKN as N	1	0	N/A				0.8	0.8	0.8	0.8	0.8	0.8	0.8
Total Phosphorus	1	0	N/A				0.06	0.06	0.06	0.06	0.06	0.06	0.06
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	24.1	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:** 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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	15	26.3	> 99.9	0.5	2.6	3.8	5.6	7.8	9.8	11.5
pH (SU)	57	0	<5	21	36.8	> 99.9	0.5	2.6	3.8	5.6	7.8	9.8	11.5
	56	0	<6	7	12.5	67.3	5.4	5.9	6.3	6.6	6.8	7	7.2
Salinity (ppt)	56	0	>9	0	0		5.4	5.9	6.3	6.6	6.8	7	7.2
	58	0	N/A				0.02	0.04	0.07	0.11	0.29	1.33	9.45
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				64	100	156	227	500	2637	16337
Water Temperature (°C)	57	0	>32	0	0		4.8	7.8	10.6	16.6	23.2	25.7	27.1
<b>Other</b>													
Chlorophyll a (ug/L)	54	20	>40	0	0		1	1	1	2	4	24	37
Hardness (mg/L)	20	0	N/A				24	42	57	82	208	396	660
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	6.4	12	12
Turbidity (NTU)	58	0	>50	0	0		2	2.8	3.6	4.5	6.2	8.2	20
<b>Nutrients (mg/L)</b>													
NH3 as N	58	16	N/A				0.02	0.02	0.02	0.02	0.05	0.08	0.2
NO2 + NO3 as N	58	1	N/A				0.02	0.05	0.11	0.2	0.34	0.51	1.4
TKN as N	58	0	N/A				0.24	0.34	0.39	0.51	0.61	0.7	1.1
Total Phosphorus	58	0	N/A				0.04	0.06	0.09	0.12	0.17	0.24	0.37
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	260.3	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:** 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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	56	0	<5	4	7.1		0	5.2	6.4	7.5	10.3	11.4	16.1
pH (SU)	56	0	<6.8	8	14.3	80.6	6.4	6.7	6.9	7.5	7.8	8	8.6
	56	0	>8.5	1	1.8		6.4	6.7	6.9	7.5	7.8	8	8.6
Salinity (ppt)	57	0	N/A				0.9	1.56	4.34	10.17	14.05	17.28	22.26
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				1661	2981	7702	17331	23652	28111	35535
Water Temperature (°C)	58	0	>32	1	1.7		2.9	8.4	13	22.6	27.9	30.6	32.4
<b>Other</b>													
Chlorophyll a (ug/L)	1	0	>40	0	0		16	16	16	16	16	16	16
TSS (mg/L)	21	7	N/A				6.2	6.2	6.2	7.8	11	17	59
Turbidity (NTU)	58	0	>25	3	5.2		3.3	3.9	4.8	6.2	8	16.1	50
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	55	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:** 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:** 01/13/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	56	0	<5	7	12.5	67.3	2.5	4.8	5.9	7.4	9.4	10.6	13.5
pH (SU)	56	0	<6.8	5	8.9		6.5	6.8	6.9	7.2	7.6	7.8	8.5
Salinity (ppt)	56	0	>8.5	0	0		6.5	6.8	6.9	7.2	7.6	7.8	8.5
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				0.4	1.88	3.03	6.36	13.38	17.82	22.71
Water Temperature (°C)	57	0	N/A				770	3452	5381	11185	22294	29066	35971
Water Temperature (°C)	58	0	>32	0	0		2.7	7.9	12	21.3	28.4	30.4	32
<b>Other</b>													
TSS (mg/L)	21	11	N/A				6.2	6.2	6.2	6.2	7.6	17.6	24
Turbidity (NTU)	58	0	>25	0	0		2.7	3	3.6	4.5	6.6	9.2	16

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
57	26.6	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:** 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:** 01/13/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<5	0	0		6	6.6	7.1	8.3	10.5	12.1	15.3
pH (SU)	55	0	<6.8	0	0		7.3	7.6	7.8	7.9	8.1	8.3	8.7
Salinity (ppt)	55	0	>8.5	2	3.6		7.3	7.6	7.8	7.9	8.1	8.3	8.7
	56	0	N/A				5.77	11.44	14.79	18.39	21.56	24.42	27.27
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				10285	19328	24394	29764	34354	38368	42362
Water Temperature (°C)	57	0	>32	0	0		2.5	6.6	11.8	21.8	27.2	29.6	30.8
<b>Other</b>													
TSS (mg/L)	21	10	N/A				6.2	6.2	6.2	8	12	12.8	15
Turbidity (NTU)	57	0	>25	0	0		1.6	2.1	2.4	3.6	5.2	6.4	8.7

**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:** 01/27/2010 to 12/18/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<5	12	21.1	99	2.6	4.1	5.4	7.1	8.5	10.3	11.5
pH (SU)	56	0	<6.8	21	37.5	>99.9	5.7	6.1	6.4	6.9	7.2	7.4	7.7
	56	0	>8.5	0	0		5.7	6.1	6.4	6.9	7.2	7.4	7.7
Salinity (ppt)	58	0	N/A				0.05	0.09	0.27	3.3	10.03	15.23	20.32
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				114	223	504	5766	16552	25114	32602
Water Temperature (°C)	57	0	>32	0	0		5.5	8.5	12	18.8	27	29.8	31.3
<b>Other</b>													
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	7.8	9.4	12	12
Turbidity (NTU)	58	0	>25	0	0		2.7	3.2	3.9	5.2	6.6	8.3	16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>			<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>			
58	47.5	0	0			54	33	57	>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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	14	24.6	99.9	0.2	3.5	4	5.7	7.2	8.3	9.9
pH (SU)	57	0	<5	25	43.9	> 99.9	0.2	3.5	4	5.7	7.2	8.3	9.9
	56	0	<6	27	48.2	> 99.9	4.6	5.3	5.7	6	6.5	6.7	7.1
Salinity (ppt)	56	0	>9	0	0		4.6	5.3	5.7	6	6.5	6.7	7.1
	58	0	N/A				0.02	0.03	0.05	0.08	0.18	0.69	6.45
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				65	88	113	177	383	1306	11337
Water Temperature (°C)	57	0	>32	0	0		5	8.1	11	17.6	24.8	28	30.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				24	26	34	40	80	198	680
TSS (mg/L)	20	9	N/A				6.2	6.2	6.2	9.8	20.8	32.8	44
Turbidity (NTU)	58	0	>50	0	0		1.3	3.2	4.9	7.4	12.5	31	50
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	233.4	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:** 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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<5	10	17.2	93.9	2.5	4.4	5.8	8.5	10.8	12.8	19.6
pH (SU)	57	0	<6.8	0	0		6.9	7.1	7.2	7.4	7.8	8.1	8.5
	57	0	>8.5	0	0		6.9	7.1	7.2	7.4	7.8	8.1	8.5
Salinity (ppt)	59	0	N/A				0.25	0.49	1.53	6.01	13.16	23.23	28.45
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				499	929	2388	10530	23094	36409	43910
Water Temperature (°C)	58	0	>32	6	10.3	47	6.9	10.8	14.6	23	27.8	32.2	38.4
<b>Other</b>													
Chlorophyll a (ug/L)	54	0	>40	20	37	>99.9	2	3	6	20	74	160	361
TSS (mg/L)	20	0	N/A				7.2	7.8	13.2	26	56.5	110.7	135
Turbidity (NTU)	56	0	>25	18	32.1	>99.9	4.1	6.2	9.4	17	31.5	45	55
<b>Nutrients (mg/L)</b>													
NH3 as N	55	3	N/A				0.02	0.03	0.06	0.12	0.19	0.37	0.94
NO2 + NO3 as N	55	2	N/A				0.02	0.09	0.14	0.22	0.49	1.66	2.8
TKN as N	55	0	N/A				0.46	0.58	0.64	1	1.5	2.48	6.5
Total Phosphorus	55	0	N/A				0.06	0.09	0.17	0.3	0.6	0.98	1.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	1151.9	44	78.6	> 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)

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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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<5	6	10.5	48.8	3.8	4.9	6.6	9.2	10.2	12	18.5
pH (SU)	56	0	<6.8	0	0		7.1	7.3	7.6	7.8	7.9	8	8.5
	56	0	>8.5	0	0		7.1	7.3	7.6	7.8	7.9	8	8.5
Salinity (ppt)	58	0	N/A				5	11.03	18.12	25.02	28.38	30.48	34.97
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				8799	18305	29323	39222	43974	47244	52988
Water Temperature (°C)	57	0	>32	4	7		6.8	11.1	13.8	22.2	28.4	31.8	34.6
<b>Other</b>													
Chlorophyll a (ug/L)	2	0	>40	0	0		1	1	1	3	5	5	5
TSS (mg/L)	20	0	N/A				7.5	7.8	13.5	20.5	40.5	87.5	112
Turbidity (NTU)	57	0	>25	6	10.5	48.8	1.5	5	8.4	13	19.5	28.6	110
<b>Nutrients (mg/L)</b>													
NH3 as N	2	0	N/A				0.04	0.04	0.04	0.04	0.05	0.05	0.05
NO2 + NO3 as N	2	0	N/A				0.22	0.22	0.22	0.27	0.32	0.32	0.32
TKN as N	2	0	N/A				0.34	0.34	0.34	0.46	0.59	0.59	0.59
Total Phosphorus	2	0	N/A				0.08	0.08	0.08	0.1	0.11	0.11	0.11
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	50.5	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)

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**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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<5	0	0		5.2	6.1	7	8	9.4	10.6	12.4
pH (SU)	54	0	<6.8	0	0		7.1	7.4	7.7	7.7	7.8	7.9	8
Salinity (ppt)	54	0	>8.5	0	0		7.1	7.4	7.7	7.7	7.8	7.9	8
Spec. conductance (umhos/cm at 25°C)	56	0	N/A				0.42	17.26	24.03	28.11	31.2	34.49	37.08
Water Temperature (°C)	54	0	N/A				801	27440	37508	43933	48018	52286	55734
	55	0	>32	0	0		6.3	9.1	13	20.3	27.2	29.9	31.7
<b>Other</b>													
Chlorophyll a (ug/L)	3	0	>40	0	0		10	10	10	16	27	27	27
TSS (mg/L)	20	2	N/A				6.2	6.3	12.5	17	32.8	51.2	85
Turbidity (NTU)	56	0	>25	9	16.1	89.7	1.2	2.4	5.6	11.5	21.5	45.9	130
<b>Nutrients (mg/L)</b>													
NH3 as N	3	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	3	3	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	2	0	N/A				0.54	0.54	0.54	0.61	0.68	0.68	0.68
Total Phosphorus	3	0	N/A				0.04	0.04	0.04	0.05	0.21	0.21	0.21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
56	3.1	1	1.8		1	4	7						

**Key:**

# result: number of observations

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

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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:** 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:** 01/27/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<5	15	26.3	> 99.9	0.1	3.5	4.9	6.7	8.6	9.9	12.4
pH (SU)	56	0	<6.8	18	32.1	> 99.9	5.7	6	6.6	7.2	7.6	7.7	8.1
Salinity (ppt)	56	0	>8.5	0	0		5.7	6	6.6	7.2	7.6	7.7	8.1
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				0.05	0.11	0.34	6.28	23.75	31.91	36.71
Water Temperature (°C)	56	0	N/A				118	233	741	13704	38136	48898	55262
Water Temperature (°C)	57	0	>32	2	3.5		6.7	9.8	12.2	19.7	27	30.9	33.2
<b>Other</b>													
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	7.3	11	14	16.8	23.8	27
Turbidity (NTU)	57	0	>25	7	12.3	65.6	4	6	8.3	12	18.5	26	34
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	97.2	8	14										

**Key:**

# result: number of observations

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

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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

## Yadkin-Pee Dee

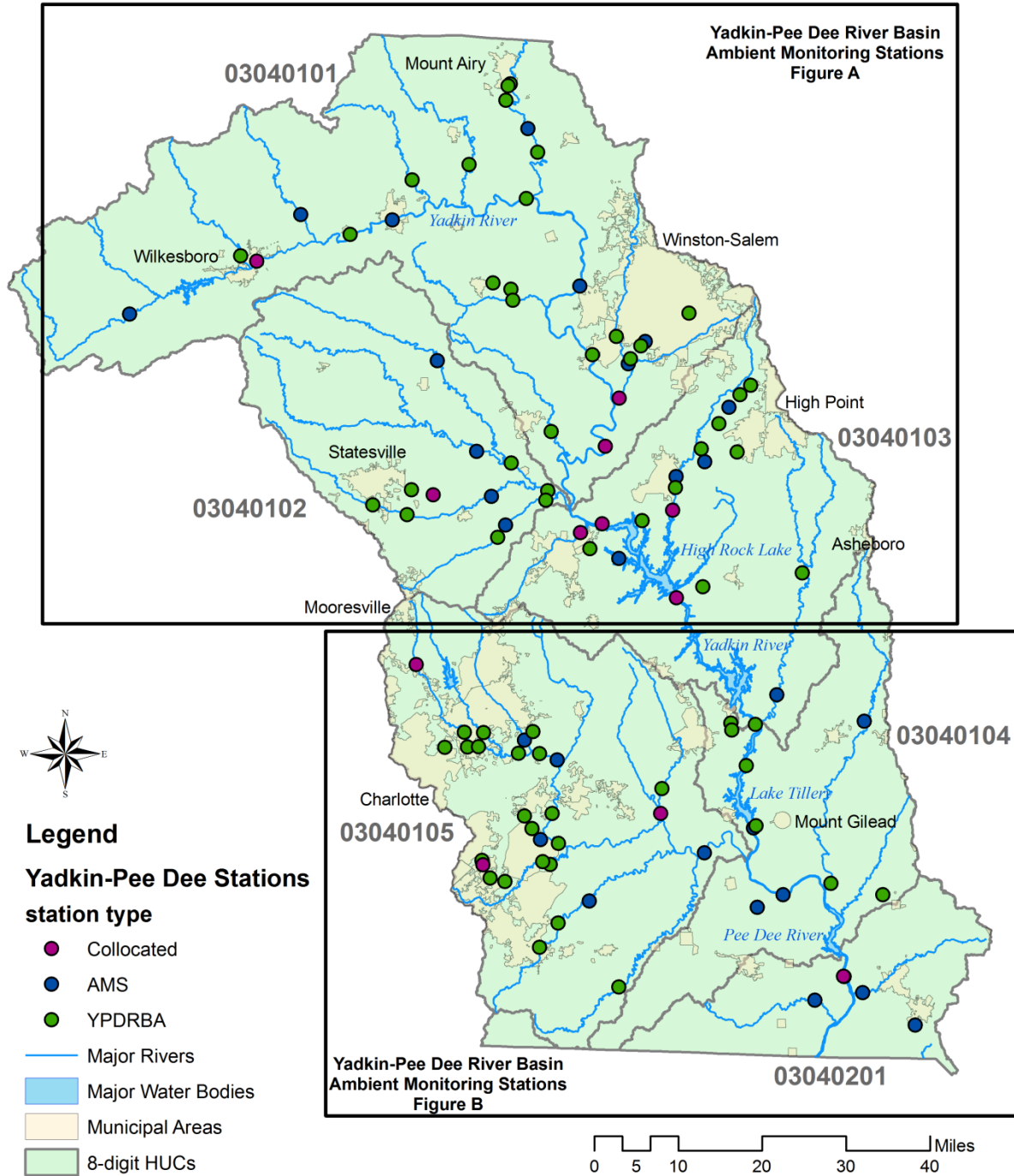
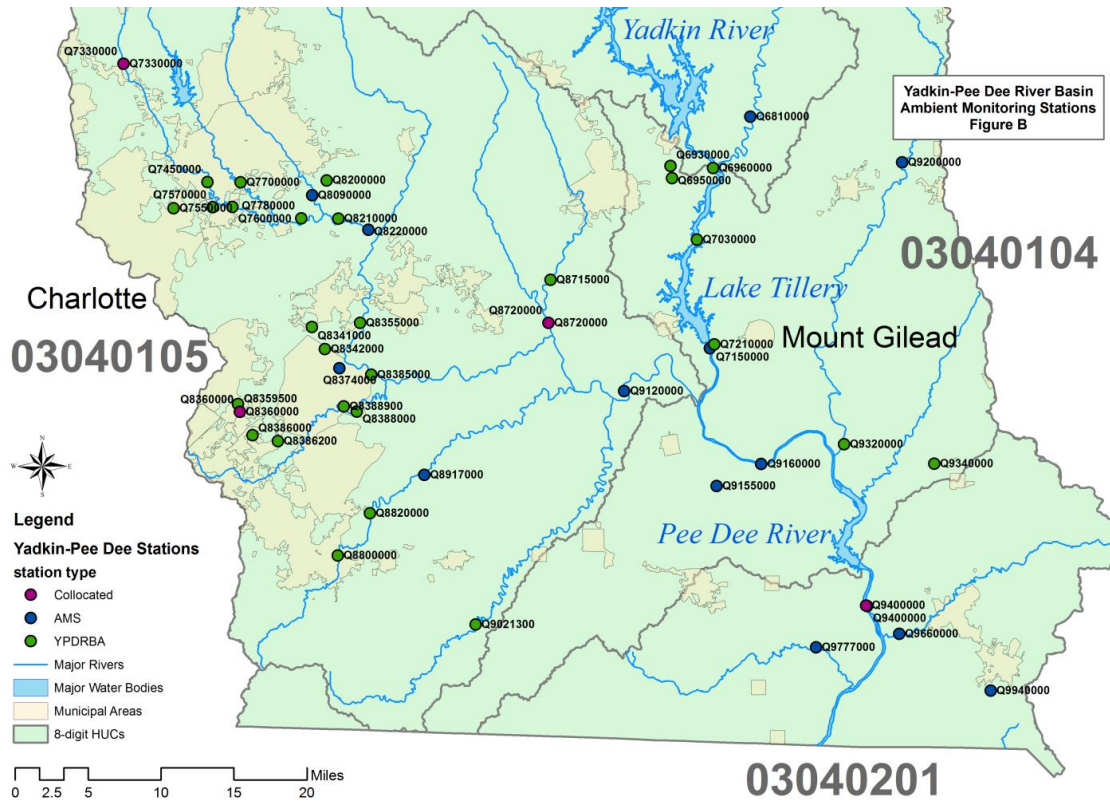


Figure YAD-1. Yadkin-Pee Dee River basin ambient monitoring station locations (see details below).

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT



NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

Table YAD-1. Ambient monitoring stations in the Yadkin-PeeDee River basin.

AGENCY	STATION	LOCATION	STREAM CLASS	LATITUDE	LONGITUDE
HUC 03040101					
AMS	Q0220000	Elk Creek at NC-268 at Elkinville	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	Q2145000	Deep Creek at SR 1711 Speer Bridge Road near Yadkinville	WS-IV	36.1140	-80.5468
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

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

AGENCY	STATION	LOCATION	STREAM CLASS	LATITUDE	LONGITUDE
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
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
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
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

NORTH CAROLINA AMBIENT MONITORING SYSTEM SUMMARY REPORT

AGENCY	STATION	LOCATION	STREAM CLASS	LATITUDE	LONGITUDE
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

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.06952

**Longitude:** -81.40237

**Stream class:** B ORW

**Agency:** NCAMBNT

**NC stream index:** 12-24-(10)

**Time period:** 01/27/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		7.1	8.1	8.7	10	12	13.5	14.6
pH (SU)	56	0	<5	0	0		7.1	8.1	8.7	10	12	13.5	14.6
	53	0	<6	0	0		6.7	7.2	7.3	7.6	7.8	8.2	9.2
Spec. conductance (umhos/cm at 25°C)	53	0	>9	1	1.9		6.7	7.2	7.3	7.6	7.8	8.2	9.2
Water Temperature (°C)	56	0	N/A				29	32	34	36	37	40	133
	56	0	>29	0	0		0.3	4.9	7.6	16.3	20.6	23.1	26.2
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				8	9	10	10	11	12	14
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	13.5	45.1	164
Turbidity (NTU)	57	9	>50	2	3.5		1	1	1.5	2.6	5.8	27.2	95
<b>Nutrients (mg/L)</b>													
NH3 as N	55	49	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	55	2	N/A				0.02	0.03	0.09	0.14	0.2	0.25	0.4
TKN as N	55	29	N/A				0.2	0.2	0.2	0.2	0.2	0.3	1
Total Phosphorus	55	23	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	110.2	13	23.2	67.7									

**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:** 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:** 01/10/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	7.1	7.5	8.3	9.6	10.9	12.3
pH (SU)	85	0	<5	0	0		6.3	7.1	7.5	8.3	9.6	10.9	12.3
	85	0	<6	0	0		6.2	6.8	7	7.1	7.2	7.3	7.8
	85	0	>9	0	0		6.2	6.8	7	7.1	7.2	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	84	10	N/A				50	50	63	72	79	84	116
Water Temperature (°C)	85	0	>29	0	0		3.3	5.7	12.2	19.2	22.7	24.2	27
<b>Other</b>													
TSS (mg/L)	60	6	N/A				2.8	3.2	4.8	8.2	14	28	309
Turbidity (NTU)	60	0	>50	3	5		1.8	4.6	6.2	9.5	15	23.9	210
<b>Nutrients (mg/L)</b>													
NH3 as N	60	8	N/A				0.01	0.02	0.04	0.06	0.08	0.12	0.21
NO2 + NO3 as N	60	0	>10	0	0		0.34	0.4	0.47	0.56	0.64	0.69	0.77
TKN as N	60	10	N/A				0.2	0.2	0.24	0.33	0.55	1.06	1.33
Total Phosphorus	58	6	N/A				0.02	0.02	0.05	0.06	0.08	0.11	0.55
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	93.4	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:** 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:** 01/27/2010 to 12/04/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		6.4	7	7.9	9.6	12.4	13.2	14.3
pH (SU)	54	0	<5	0	0		6.4	7	7.9	9.6	12.4	13.2	14.3
	52	0	<6	0	0		6.7	7	7.3	7.5	7.8	8.2	8.8
	52	0	>9	0	0		6.7	7	7.3	7.5	7.8	8.2	8.8
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				31	42	49	55	66	72	119
Water Temperature (°C)	55	0	>29	0	0		4	6	8.9	17.3	21.3	23.3	24.7
<b>Other</b>													
Hardness (mg/L)	16	0	N/A				11	12	13	15	17	18	19
TSS (mg/L)	17	8	N/A				6.2	6.2	6.2	8	14.5	47.4	97
Turbidity (NTU)	55	0	>50	3	5.5		1.9	3.6	5	7.2	13	39.6	130
<b>Nutrients (mg/L)</b>													
NH3 as N	1	0	N/A				0.05	0.05	0.05	0.05	0.05	0.05	0.05
NO2 + NO3 as N	1	0	N/A				0.72	0.72	0.72	0.72	0.72	0.72	0.72
TKN as N	1	0	N/A				0.26	0.26	0.26	0.26	0.26	0.26	0.26
Total Phosphorus	1	0	N/A				0.15	0.15	0.15	0.15	0.15	0.15	0.15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	95.4	9	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:** 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:** 01/10/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	7.1	7.6	8.1	9.5	11	12.2
pH (SU)	85	0	<5	0	0		6.4	7.1	7.6	8.1	9.5	11	12.2
	85	0	<6	1	1.2		4.2	6.7	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.2	6.7	7	7.1	7.2	7.3	7.4
Water Temperature (°C)	84	5	N/A				50	57	64	71	78	84	121
	85	0	>29	0	0		3.3	5.5	12.2	18.9	22.7	24.2	26.5
<b>Other</b>													
TSS (mg/L)	2	0	N/A				12	12	12	36	60	60	60
Turbidity (NTU)	60	0	>50	2	3.3		1	2.6	4	6.8	13	26.1	190
<b>Nutrients (mg/L)</b>													
NH3 as N	60	12	N/A				0.01	0.02	0.02	0.05	0.08	0.11	0.31
NO2 + NO3 as N	60	0	N/A				0.23	0.28	0.37	0.4	0.5	0.58	0.88
TKN as N	60	19	N/A				0.16	0.2	0.2	0.26	0.43	0.72	1.46
Total Phosphorus	58	15	N/A				0.02	0.02	0.02	0.03	0.06	0.11	0.64
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	107.2	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:** 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:** 01/07/2010 to 09/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6.9	8.3	8.9	10.2	12.5	13.8	15.7
pH (SU)	55	0	<6	0	0		6.8	7.1	7.3	7.4	7.6	8	8.7
Spec. conductance (umhos/cm at 25°C)	55	0	>9	0	0		6.8	7.1	7.3	7.4	7.6	8	8.7
Water Temperature (°C)	57	0	>29	0	0		26	32	34	36	39	43	91
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				8	8	9	10	11	18	21
Total Organic Carbon (mg/L as C)	6	6	N/A				2	2	2	2	2	2	2
TSS (mg/L)	23	14	N/A				6.2	6.2	6.2	6.2	12	24.8	94
Turbidity (NTU)	58	1	>50	3	5.2		1	1.6	2.4	4.1	8.3	17	85
<b>Nutrients (mg/L)</b>													
NH3 as N	6	6	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	6	0	N/A				0.48	0.48	0.56	0.66	0.74	0.75	0.75
TKN as N	6	5	N/A				0.2	0.2	0.2	0.2	0.2	0.22	0.22
Total Phosphorus	6	3	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.05
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	87.2	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:** YADKIN RIV AT SR 2303 AT RONDA

**Station #:** Q0720000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.21548

**Longitude:** -80.93678

**Stream class:** WS-IV

**Agency:** YPDRBA

**NC stream index:** 12-(47.5)

**Time period:** 01/10/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	7.2	7.5	8.1	9.4	11	12
pH (SU)	85	0	<5	0	0		6.3	7.2	7.5	8.1	9.4	11	12
	85	0	<6	0	0		6.1	6.8	7	7.2	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.1	6.8	7	7.2	7.3	7.3	7.4
Water Temperature (°C)	85	2	N/A				50	59	66	76	82	89	109
	85	0	>29	0	0		3.5	6	12.4	19	23.2	24.6	27.3
<b>Other</b>													
Turbidity (NTU)	60	0	>50	4	6.7		3.5	5.8	8.9	13	16.8	37.7	320
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.02	0.03	0.04	0.07	0.1	0.15	0.2
NO2 + NO3 as N	60	0	>10	0	0		0.36	0.46	0.57	0.68	0.76	0.83	0.95
TKN as N	60	5	N/A				0.2	0.2	0.24	0.36	0.53	0.93	2.01
Total Phosphorus	58	3	N/A				0.02	0.04	0.06	0.08	0.1	0.18	0.71
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	97.6	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:** YADKIN RIV AT US 21 BUS AT ELKIN

**Station #:** Q0810000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.24176

**Longitude:** -80.84734

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 12-(53)

**Time period:** 01/04/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6.7	7.6	8.2	9.6	12	13.3	15.3
pH (SU)	55	0	<6	0	0		6.7	7.1	7.2	7.4	7.6	7.8	8.6
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.7	7.1	7.2	7.4	7.6	7.8	8.6
Water Temperature (°C)	57	0	N/A				42	46	53	58	64	69	93
			>29	0	0		1.9	4.2	8.8	16.9	21.6	24	27.9
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				11	14	14	16	18	25	79
Total Organic Carbon (mg/L as C)	3	3	N/A				2	2	2	2	2	2	2
TSS (mg/L)	22	7	N/A				6.2	6.2	7.1	11	22.8	74.1	90
Turbidity (NTU)	58	0	>50	3	5.2		1.8	3.9	6.4	9	20.5	36.4	110
<b>Nutrients (mg/L)</b>													
NH3 as N	4	0	N/A				0.02	0.02	0.02	0.02	0.07	0.08	0.08
NO2 + NO3 as N	4	0	N/A				0.55	0.55	0.64	0.9	0.94	0.95	0.95
TKN as N	4	0	N/A				0.2	0.2	0.21	0.24	0.26	0.27	0.27
Total Phosphorus	4	0	N/A				0.05	0.05	0.05	0.05	0.09	0.1	0.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	181.4	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:** 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:** 01/11/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.6	7.3	7.7	8.5	9.6	10.9	13
pH (SU)	85	0	<5	0	0		6.6	7.3	7.7	8.5	9.6	10.9	13
	85	0	<6	0	0		6.3	6.8	7.1	7.2	7.4	7.4	7.7
Spec. conductance (umhos/cm at 25°C)	85	10	>9	0	0		6.3	6.8	7.1	7.2	7.4	7.4	7.7
Water Temperature (°C)	85	0	N/A				50	50	72	90	102	115	126
	85	0	>29	0	0		1.3	5.4	12	18.7	22.1	24	25.7
<b>Other</b>													
TSS (mg/L)	60	24	N/A				1	2.9	2.9	5.4	11	23.9	1230
Turbidity (NTU)	60	0	>50	5	8.3		1.3	3.7	5.6	9.8	18	32.7	600
<b>Nutrients (mg/L)</b>													
NH3 as N	60	11	N/A				0.01	0.02	0.02	0.04	0.07	0.12	0.42
NO2 + NO3 as N	60	0	N/A				0.16	0.26	0.35	0.42	0.53	0.63	1.95
TKN as N	60	16	N/A				0.2	0.2	0.2	0.32	0.59	0.95	2.59
Total Phosphorus	58	13	N/A				0.02	0.02	0.02	0.04	0.07	0.11	1.12
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	84.9	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:** FISHER RIV AT NC 268 NR FAIRVIEW

**Station #:** Q1215000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.33953

**Longitude:** -80.68520

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 12-63-(9)

**Time period:** 01/11/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.6	6.9	7.4	8.4	9.4	10.7	13
pH (SU)	85	0	<5	0	0		6.6	6.9	7.4	8.4	9.4	10.7	13
	85	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.3	8.5
	85	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.3	8.5
Spec. conductance (umhos/cm at 25°C)	85	2	N/A				50	71	97	112	120	131	147
Water Temperature (°C)	85	0	>29	0	0		1.3	6.1	12.4	19.4	23.3	24.5	26.1
<b>Other</b>													
TSS (mg/L)	60	17	N/A				2.9	2.9	3	9	16	60.8	1080
Turbidity (NTU)	60	0	>50	6	10		1.6	3.6	6.4	12.5	26.2	59	750
<b>Nutrients (mg/L)</b>													
NH3 as N	60	10	N/A				0.01	0.02	0.03	0.05	0.09	0.17	0.3
NO2 + NO3 as N	60	0	N/A				0.31	0.64	0.74	0.88	1.11	1.24	1.44
TKN as N	60	13	N/A				0.2	0.2	0.22	0.34	0.6	1.1	2.89
Total Phosphorus	58	1	N/A				0.02	0.05	0.07	0.1	0.18	0.25	0.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	92.3	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:** YADKIN RIV AT SR 1003 NR SILOAM

**Station #:** Q1350000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.28238

**Longitude:** -80.56223

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 12-(53)

**Time period:** 01/11/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.5	6.8	7.4	8.2	9.4	10.6	12.6
pH (SU)	85	0	<5	0	0		6.5	6.8	7.4	8.2	9.4	10.6	12.6
	85	0	<6	0	0		6	6.9	7	7.1	7.2	7.4	8
	85	0	>9	0	0		6	6.9	7	7.1	7.2	7.4	8
Spec. conductance (umhos/cm at 25°C)	85	2	N/A				50	65	97	110	120	127	141
Water Temperature (°C)	85	0	>29	0	0		2.1	7.2	13.1	20.7	24.3	25.8	26.6
<b>Other</b>													
TSS (mg/L)	60	3	N/A				2.9	3.3	5.8	12	28	53.6	615
Turbidity (NTU)	60	0	>50	6	10		3.1	5.5	11.2	16	33.8	103.8	370
<b>Nutrients (mg/L)</b>													
NH3 as N	60	8	N/A				0.01	0.02	0.03	0.05	0.07	0.15	0.6
NO2 + NO3 as N	60	0	N/A				0.43	0.51	0.62	0.7	0.81	0.88	0.95
TKN as N	60	5	N/A				0.2	0.22	0.29	0.4	0.59	1.08	2.21
Total Phosphorus	58	4	N/A				0.02	0.03	0.06	0.08	0.12	0.2	0.91
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	78.1	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:** ARARAT RIV AT US 52 NR MT AIRY

**Station #:** Q1500000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.47995

**Longitude:** -80.60035

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 12-72-(4.5)

**Time period:** 01/11/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.6	6.8	7.4	8.2	9.4	10.4	12.6
pH (SU)	85	0	<5	0	0		6.6	6.8	7.4	8.2	9.4	10.4	12.6
	85	0	<6	0	0		6.6	6.8	6.9	7.1	7.2	7.2	7.7
	85	0	>9	0	0		6.6	6.8	6.9	7.1	7.2	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	85	2	N/A				50	61	108	121	129	138	155
Water Temperature (°C)	85	0	>29	0	0		1.2	6.5	12.2	19.5	23.4	24.7	26.1
<b>Other</b>													
Turbidity (NTU)	60	0	>50	5	8.3		1.9	3.2	5.5	11.5	19.8	37.6	390
<b>Nutrients (mg/L)</b>													
NH3 as N	17	2	N/A				0.02	0.02	0.02	0.03	0.07	0.09	0.1
NO2 + NO3 as N	17	0	N/A				0.27	0.36	0.41	0.53	0.6	0.76	0.78
TKN as N	17	2	N/A				0.2	0.2	0.22	0.28	0.52	0.78	0.97
Total Phosphorus	17	6	N/A				0.02	0.02	0.02	0.03	0.06	0.14	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	92	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:** 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:** 01/11/2010 to 07/28/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		6.3	6.5	7	7.7	9	10.6	12.4
pH (SU)	61	0	<5	0	0		6.3	6.5	7	7.7	9	10.6	12.4
	61	0	<6	0	0		6.6	6.7	6.9	7	7.1	7.2	7.3
	61	0	>9	0	0		6.6	6.7	6.9	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				57	105	128	145	162	177	188
Water Temperature (°C)	61	0	>29	0	0		1.4	5.9	12.3	19	23.4	25.1	26.2
<b>Other</b>													
Turbidity (NTU)	43	0	>50	8	18.6	93.9	3.1	4.1	5.8	14	29	132	390

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	170	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:** ARARAT RIV AT SR 2119 NR MT AIRY

**Station #:** Q1725000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.45172

**Longitude:** -80.60915

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 12-72-(4.5)

**Time period:** 01/11/2010 to 07/28/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		6.4	6.7	7	7.8	9	10.7	12.7
pH (SU)	61	0	<5	0	0		6.4	6.7	7	7.8	9	10.7	12.7
	61	0	<6	0	0		6.5	6.8	6.9	7.1	7.1	7.2	7.4
	61	0	>9	0	0		6.5	6.8	6.9	7.1	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				51	85	114	139	154	165	172
Water Temperature (°C)	61	0	>29	0	0		1.6	5.7	12.2	19.3	23.2	25.2	26
<b>Other</b>													
Turbidity (NTU)	43	0	>50	4	9.3		1.7	3.1	4.9	11	20	46.8	500

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	139.8	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:** ARARAT RIV AT SR 2019 AT ARARAT

**Station #:** Q1780000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.40361      **Longitude:** -80.56113

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 12-72-(4.5)

**Time period:** 01/07/2010 to 12/04/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		6.6	7.9	8.8	10.4	12.4	13.4	15.4
pH (SU)	54	0	<5	0	0		6.6	7.9	8.8	10.4	12.4	13.4	15.4
	51	0	<6	0	0		6.9	7.3	7.5	7.7	8	8.3	8.9
Spec. conductance (umhos/cm at 25°C)	51	0	>9	0	0		6.9	7.3	7.5	7.7	8	8.3	8.9
Water Temperature (°C)	55	0	N/A				54	63	67	70	75	79	91
	55	0	>29	0	0		1.5	5.1	8.9	17.3	22.1	24.8	27.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				20	20	21	22	24	26	37
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	8.6	15	38.2	45
Turbidity (NTU)	55	0	>50	1	1.8		1.5	2.1	2.9	4.7	13	24.4	95
<b>Nutrients (mg/L)</b>													
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
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
53	84.3	6	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:** 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:** 01/11/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.9	7.6	8.2	9.6	10.8	12.7
pH (SU)	85	0	<5	0	0		6.4	6.9	7.6	8.2	9.6	10.8	12.7
	85	0	<6	0	0		6.6	6.9	7.1	7.2	7.3	7.4	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.6	6.9	7.1	7.2	7.3	7.4	8.2
Water Temperature (°C)	85	1	N/A				50	80	94	107	118	126	146
	85	0	>29	0	0		1.7	5.9	12.2	19.2	22.9	24.9	25.9
<b>Other</b>													
Turbidity (NTU)	60	0	>50	7	11.7	60.5	1.6	3.4	7.2	12	25.8	74	500
<b>Nutrients (mg/L)</b>													
NH3 as N	17	4	N/A				0.02	0.02	0.02	0.04	0.05	0.1	0.26
NO2 + NO3 as N	17	0	N/A				0.4	0.4	0.52	0.59	0.68	0.83	0.88
TKN as N	17	2	N/A				0.2	0.2	0.28	0.39	0.57	1.16	2.37
Total Phosphorus	17	4	N/A				0.02	0.02	0.02	0.05	0.07	0.24	0.68

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	76.6	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:** YADKIN RIV AT SR 1605 AT ENON

**Station #:** Q2040000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.13279

**Longitude:** -80.44539

**Stream class:** WS-IV

**Agency:** NCAMBNT

**NC stream index:** 12-(80.7)

**Time period:** 01/04/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	50	0	<4	0	0		6.8	7.6	8	9.8	12.8	13.8	14.8
pH (SU)	50	0	<5	0	0		6.8	7.6	8	9.8	12.8	13.8	14.8
	48	0	<6	0	0		6.7	7.1	7.4	7.6	7.8	8.3	8.7
Spec. conductance (umhos/cm at 25°C)	48	0	>9	0	0		6.7	7.1	7.4	7.6	7.8	8.3	8.7
	50	0	N/A				33	49	57	62	68	72	76
Water Temperature (°C)	50	0	>29	0	0		1.3	2.6	8.5	15.9	22.7	25.1	27.6
<b>Other</b>													
Hardness (mg/L)	18	0	>100	0	0		15	16	17	19	20	22	23
Total Organic Carbon (mg/L as C)	4	3	N/A				2	2	2	2	3	3	3
TSS (mg/L)	21	6	N/A				6.2	6.2	6.6	9.8	25.5	54	110
Turbidity (NTU)	50	0	>50	8	16	87.7	2	3.6	6.7	12	34	106	280
<b>Nutrients (mg/L)</b>													
NH3 as N	4	1	N/A				0.02	0.02	0.02	0.02	0.03	0.03	0.03
NO2 + NO3 as N	4	0	>10	0	0		0.61	0.61	0.63	0.78	0.88	0.89	0.89
TKN as N	3	2	N/A				0.2	0.2	0.2	0.2	0.24	0.24	0.24
Total Phosphorus	4	0	N/A				0.04	0.04	0.04	0.05	0.14	0.16	0.16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
48	69.2	9	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:** 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:** 01/11/2010 to 07/28/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		6.2	6.5	7	7.7	8.7	10.2	12.1
pH (SU)	61	0	<5	0	0		6.2	6.5	7	7.7	8.7	10.2	12.1
	61	0	<6	0	0		6.5	6.6	6.7	7	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	61	0	>9	0	0		6.5	6.6	6.7	7	7.2	7.4	7.6
Water Temperature (°C)	61	0	N/A				65	89	92	98	112	128	147
	61	0	>29	0	0		1.8	6	12.5	19.3	23	24.8	26
<b>Other</b>													
Turbidity (NTU)	43	0	>50	10	23.3	99.1	4.7	7.3	13	20	50	294	850

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	214.7	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:** S DEEP CRK AT SR 1733 NR SHACKTOWN

**Station #:** Q2135000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.10648

**Longitude:** -80.58765

**Stream class:** WS-IV

**Agency:** YPDRBA

**NC stream index:** 12-84-2-(5.5)

**Time period:** 01/11/2010 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	6.7	6.9	7.5	8.7	10.2	12
pH (SU)	85	0	<5	0	0		6.3	6.7	6.9	7.5	8.7	10.2	12
	85	0	<6	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.6
Water Temperature (°C)	85	0	N/A				65	81	104	119	128	146	167
	85	0	>29	0	0		2.1	6.1	12.4	19.5	23	24.9	26.2
<b>Other</b>													
Turbidity (NTU)	60	0	>50	12	20	98.5	4	6.4	11	18	39	133.5	500
<b>Nutrients (mg/L)</b>													
NH3 as N	17	3	N/A				0.02	0.02	0.02	0.04	0.06	0.12	0.19
NO2 + NO3 as N	17	0	>10	0	0		1.01	1.02	1.23	1.46	1.6	1.78	1.8
TKN as N	17	0	N/A				0.21	0.21	0.32	0.44	0.59	1.31	1.61
Total Phosphorus	17	2	N/A				0.02	0.02	0.02	0.11	0.16	0.28	0.53

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	149	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 CRK AT SR 1711 SPEER BRIDGE RD NR YADKINVILLE

**Station #:** Q2145000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.11400

**Longitude:** -80.54680

**Stream class:** WS-IV

**Agency:** YPDRBA

**NC stream index:** 12-84

**Time period:** 12/08/2013 to 12/21/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	18	0	<4	0	0		6.7	6.8	7.1	8.2	9.6	9.8	10
pH (SU)	18	0	<5	0	0		6.7	6.8	7.1	8.2	9.6	9.8	10
	18	0	<6	0	0		6.7	6.7	6.8	7	7	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.7	6.7	6.8	7	7	7.3	7.4
Water Temperature (°C)	18	0	N/A				84	88	91	144	157	161	183
	18	0	>29	0	0		5.7	6.8	6.9	20.1	23.3	23.7	24.9
<b>Other</b>													
Turbidity (NTU)	13	0	>50	2	15.4	62.1	8	8.6	14	36	45	400	600
<b>Nutrients (mg/L)</b>													
NH3 as N	13	1	N/A				0.02	0.02	0.04	0.05	0.1	0.21	0.28
NO2 + NO3 as N	13	0	>10	0	0		0.68	0.8	1	1.21	1.38	1.49	1.52
TKN as N	13	0	N/A				0.29	0.3	0.38	0.55	0.98	1.7	1.89
Total Phosphorus	13	1	N/A				0.02	0.04	0.08	0.09	0.12	0.5	0.72
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
13	142.7	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:** YADKIN RIV AT US 158 AT CLEMMONS

**Station #:** Q2180000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.01437

**Longitude:** -80.41637

**Stream class:** WS-IV

**Agency:** YPDRBA

**NC stream index:** 12-(86.7)

**Time period:** 01/11/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	82	0	<4	0	0		6.4	6.9	7.4	8	9.1	10.6	12.2
pH (SU)	82	0	<5	0	0		6.4	6.9	7.4	8	9.1	10.6	12.2
	82	0	<6	0	0		6.4	6.8	7	7.1	7.2	7.4	7.4
	82	0	>9	0	0		6.4	6.8	7	7.1	7.2	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	82	0	N/A				53	68	106	119	133	145	163
Water Temperature (°C)	82	0	>29	0	0		2.7	6.6	11.2	19.9	23.9	26	28.6
<b>Other</b>													
TSS (mg/L)	57	2	N/A				2.9	4.8	8.4	22	43.5	90	573
Turbidity (NTU)	57	0	>50	13	22.8	99.6	3.2	7.8	12.5	21	50	116	390
<b>Nutrients (mg/L)</b>													
NH3 as N	57	4	N/A				0.01	0.02	0.04	0.07	0.09	0.14	0.24
NO2 + NO3 as N	57	0	>10	0	0		0.33	0.47	0.56	0.64	0.72	0.83	0.93
TKN as N	57	0	N/A				0.21	0.26	0.34	0.46	0.75	1.03	2.4
Total Phosphorus	55	6	N/A				0.02	0.03	0.06	0.08	0.13	0.24	0.95
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	92.6	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:** MUDDY CRK AT I 40 NR CLEMMONS

**Station #:** Q2291000

**Hydrologic Unit Code:** 03040101

**Latitude:** 36.04700      **Longitude:** -80.36623

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 12-94-(0.5)

**Time period:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	7.1	7.4	8	9.2	10.6	12.6
pH (SU)	85	0	<5	0	0		6.3	7.1	7.4	8	9.2	10.6	12.6
	85	0	<6	0	0		6.6	6.7	6.8	7	7.1	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.6	6.7	6.8	7	7.1	7.3	7.5
Water Temperature (°C)	85	0	N/A				78	113	124	134	147	159	204
	85	0	>32	0	0		2.1	5.1	9.1	18.9	22.1	23.8	26.7
<b>Other</b>													
Turbidity (NTU)	60	0	>50	7	11.7	60.5	4.2	8.8	12	16.5	34	73.5	230
<b>Nutrients (mg/L)</b>													
NH3 as N	17	2	N/A				0.02	0.02	0.04	0.06	0.2	1.32	1.45
NO2 + NO3 as N	17	0	N/A				0.28	0.32	0.51	0.64	0.8	1.11	1.53
TKN as N	17	1	N/A				0.2	0.27	0.38	0.44	0.78	2.39	4.15
Total Phosphorus	17	2	N/A				0.02	0.02	0.04	0.07	0.14	0.47	1.3
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	137.2	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:** 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5	6.4	7	7.6	8.9	10.5	12.5
pH (SU)	85	0	<5	0	0		5	6.4	7	7.6	8.9	10.5	12.5
	85	0	<6	0	0		6.5	6.7	6.8	6.9	7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.7	6.8	6.9	7	7.2	7.5
Water Temperature (°C)	85	0	N/A				93	106	126	147	162	177	226
	85	0	>32	0	0		2.2	5.1	8.9	18.7	22	24.4	27.5
<b>Other</b>													
Turbidity (NTU)	60	0	>50	8	13.3	75.1	4.8	8.9	13	16.5	32	59.5	220
<b>Nutrients (mg/L)</b>													
NH3 as N	17	0	N/A				0.03	0.03	0.04	0.07	0.14	0.66	0.75
NO2 + NO3 as N	17	0	N/A				0.41	0.43	0.56	0.84	1.82	3.01	3.89
TKN as N	17	0	N/A				0.27	0.3	0.33	0.57	0.88	1.89	2.7
Total Phosphorus	17	2	N/A				0.02	0.02	0.04	0.1	0.2	0.42	0.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	152.2	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:** 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:** 01/19/2010 to 12/18/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		5.8	6.2	7.2	8.8	11	13.6	15.9
pH (SU)	54	0	<5	0	0		5.8	6.2	7.2	8.8	11	13.6	15.9
	53	0	<6	0	0		6.8	7.1	7.2	7.3	7.4	7.6	8.2
	53	0	>9	0	0		6.8	7.1	7.2	7.3	7.4	7.6	8.2
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				77	94	127	152	170	192	1133
Water Temperature (°C)	54	0	>32	0	0		2	5.3	10.5	17.9	24.4	26.1	27.3
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				30	31	35	41	47	50	53
TSS (mg/L)	19	12	N/A				6.2	6.2	6.2	6.2	14	80	110
Turbidity (NTU)	54	0	>50	5	9.3		1.6	2.2	2.8	4.7	10.8	50	140
<b>Nutrients (mg/L)</b>													
NH3 as N	54	0	N/A				0.04	0.07	0.1	0.15	0.23	0.43	1.1
NO2 + NO3 as N	54	0	N/A				0.11	0.53	0.81	1.1	1.2	1.4	3
TKN as N	54	0	N/A				0.34	0.4	0.44	0.5	0.64	0.94	1.4
Total Phosphorus	54	3	N/A				0.02	0.02	0.02	0.03	0.05	0.14	0.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	313.3	21	38.9	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:** 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:** 01/12/2010 to 07/29/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		6.4	6.8	7.2	7.8	9	10.6	12.2
pH (SU)	61	0	<5	0	0		6.4	6.8	7.2	7.8	9	10.6	12.2
	61	0	<6	0	0		6.5	6.8	6.9	7	7.2	7.2	7.4
	61	0	>9	0	0		6.5	6.8	6.9	7	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				90	115	126	144	162	178	341
Water Temperature (°C)	61	0	>32	0	0		3.6	6	10.8	19.5	23.9	25.2	27.7
<b>Other</b>													
Turbidity (NTU)	43	0	>50	2	4.7		1.5	3.8	5.3	9.2	19	50	120
<b>Nutrients (mg/L)</b>													
NH3 as N	43	0	N/A				0.04	0.08	0.1	0.19	0.28	0.61	1.14
NO2 + NO3 as N	43	0	N/A				0.44	0.6	0.84	1.07	1.22	1.34	1.64
TKN as N	43	1	N/A				0.2	0.22	0.34	0.54	0.86	1.28	1.75
Total Phosphorus	41	3	N/A				0.02	0.02	0.04	0.05	0.08	0.12	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
43	135.2	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:** 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.2	6.7	7	7.6	8.5	10.2	11.9
pH (SU)	85	0	<5	0	0		6.2	6.7	7	7.6	8.5	10.2	11.9
	85	0	<6	0	0		6.4	6.8	6.8	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.8	6.8	7	7.1	7.2	7.4
Water Temperature (°C)	85	0	N/A				124	163	179	203	249	352	564
	85	0	>32	0	0		3.9	7.1	11	20	24.2	25.7	29.5
<b>Other</b>													
Turbidity (NTU)	60	0	>50	3	5		1.6	5	6.4	9.6	17	39.6	100
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.04	0.08	0.09	0.15	0.23	0.4	0.84
NO2 + NO3 as N	60	0	N/A				1.37	2.4	3.32	4.42	5.52	6.94	8.96
TKN as N	60	0	N/A				0.49	0.68	0.86	0.98	1.32	1.67	1.89
Total Phosphorus	58	0	N/A				0.05	0.2	0.39	0.82	1.23	2.13	7.4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	172.3	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:** 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:** 01/19/2010 to 12/18/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		5.5	6.4	7.2	8.4	11	12.8	15.2
pH (SU)	54	0	<5	0	0		5.5	6.4	7.2	8.4	11	12.8	15.2
	53	0	<6	0	0		6.7	7	7.1	7.2	7.4	7.6	8
	53	0	>9	0	0		6.7	7	7.1	7.2	7.4	7.6	8
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				68	107	191	245	306	388	806
Water Temperature (°C)	54	0	>32	0	0		2.8	5.6	11.2	17.8	24.3	25.5	27.4
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				30	30	41	50	57	63	68
TSS (mg/L)	19	5	N/A				6.2	6.2	6.8	12	78	208	224
Turbidity (NTU)	54	0	>50	10	18.5	96	1.9	3	4.4	7.7	15.5	125	290
<b>Nutrients (mg/L)</b>													
NH3 as N	54	0	N/A				0.03	0.05	0.05	0.09	0.2	0.4	1.1
NO2 + NO3 as N	54	0	N/A				0.51	0.94	2.05	2.85	3.9	4.65	5.8
TKN as N	54	0	N/A				0.5	0.57	0.66	0.76	0.96	1.5	2.2
Total Phosphorus	54	0	N/A				0.02	0.24	0.48	0.58	0.83	1.05	2.7
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	382.5	22	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:** 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:** 01/19/2010 to 04/05/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	6	0	<4	0	0		8.3	8.3	9.4	12	13.7	16.1	16.1
pH (SU)	6	0	<5	0	0		8.3	8.3	9.4	12	13.7	16.1	16.1
	5	0	<6	0	0		6.5	6.5	6.6	6.9	7.1	7.1	7.1
	5	0	>9	0	0		6.5	6.5	6.6	6.9	7.1	7.1	7.1
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				133	133	138	170	190	196	196
Water Temperature (°C)	6	0	>32	0	0		5.3	5.3	6.9	8	12.6	19.2	19.2
<b>Other</b>													
Total Organic Carbon (mg/L as C)	6	0	N/A				3	3	3	4	5	6	6
TSS (mg/L)	6	0	N/A				21	21	21	28.5	56.8	65	65
Turbidity (NTU)	6	0	>50	2	33.3		11	11	13.2	22.5	58.8	70	70
<b>Nutrients (mg/L)</b>													
NH3 as N	6	0	N/A				0.02	0.02	0.05	0.12	0.18	0.34	0.34
NO2 + NO3 as N	6	0	N/A				0.95	0.95	1.29	1.75	2	2.3	2.3
TKN as N	6	0	N/A				0.47	0.47	0.5	0.58	0.69	0.81	0.81
Total Phosphorus	6	0	N/A				0.27	0.27	0.28	0.34	0.4	0.41	0.41

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.2	6.7	7	7.7	8.6	10.3	12.1
pH (SU)	85	0	<5	0	0		6.2	6.7	7	7.7	8.6	10.3	12.1
	85	0	<6	0	0		6.4	6.8	6.9	7	7.2	7.3	7.7
	85	0	>9	0	0		6.4	6.8	6.9	7	7.2	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				103	140	162	183	206	270	336
Water Temperature (°C)	85	0	>32	0	0		3.5	7.1	11	20.2	23.7	25.1	28
<b>Other</b>													
Turbidity (NTU)	60	0	>50	11	18.3	96.6	2.4	6.9	9.2	15.5	32.8	89	450
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.03	0.04	0.07	0.09	0.17	0.36	0.87
NO2 + NO3 as N	60	0	N/A				0.75	1.25	1.62	2.4	3.15	3.57	5.07
TKN as N	60	0	N/A				0.25	0.48	0.55	0.69	0.94	1.34	2.41
Total Phosphorus	58	0	N/A				0.1	0.14	0.27	0.37	0.64	0.99	5.2

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	155.3	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:** 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:** 01/19/2010 to 08/20/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	47	0	<4	0	0		5.4	6.3	7.2	8.8	11.9	13.4	14.3
pH (SU)	47	0	<5	0	0		5.4	6.3	7.2	8.8	11.9	13.4	14.3
	46	0	<6	0	0		6.3	7	7.2	7.4	7.6	8	8.3
	46	0	>9	0	0		6.3	7	7.2	7.4	7.6	8	8.3
Spec. conductance (umhos/cm at 25°C)	46	0	N/A				51	61	73	81	104	114	148
Water Temperature (°C)	48	0	>32	0	0		1.6	4.9	9.5	16.2	24.1	26.8	28
<b>Other</b>													
Chlorophyll a (ug/L)	3	1	>40	0	0		1	1	1	1	2	2	2
Hardness (mg/L)	18	0	>100	0	0		5	18	23	25	28	30	35
Total Organic Carbon (mg/L as C)	3	1	N/A				2	2	2	2	9	9	9
TSS (mg/L)	20	3	N/A				6.2	6.6	12	19	78	168.8	180
Turbidity (NTU)	49	0	>50	11	22.4	99.2	2.6	6.1	8.4	18	45	140	280
<b>Nutrients (mg/L)</b>													
NH3 as N	3	0	N/A				0.02	0.02	0.02	0.06	0.14	0.14	0.14
NO2 + NO3 as N	3	0	>10	0	0		0.87	0.87	0.87	0.93	0.96	0.96	0.96
TKN as N	3	1	N/A				0.2	0.2	0.2	0.4	1.1	1.1	1.1
Total Phosphorus	3	0	N/A				0.09	0.09	0.09	0.1	0.46	0.46	0.46
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
49	178.3	11	22.4	61.1									

**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:** 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.5	7.1	7.5	8	9	10.6	12
pH (SU)	85	0	<5	0	0		6.5	7.1	7.5	8	9	10.6	12
	85	0	<6	0	0		6.1	6.9	7.1	7.2	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	85	3	N/A	0	0		6.1	6.9	7.1	7.2	7.3	7.4	7.5
Water Temperature (°C)	85	0	>32	0	0		50	85	104	116	124	132	156
<b>Other</b>													
TSS (mg/L)	60	2	N/A				3.9	7.9	11.8	20.7	24.2	25.7	30.2
Turbidity (NTU)	60	0	>50	13	21.7	99.4	2.9	6.7	11.2	21	41.5	61	996
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.01	0.03	0.05	0.06	0.11	0.14	0.27
NO2 + NO3 as N	60	0	>10	0	0		0.48	0.7	0.84	0.98	1.16	1.38	3.09
TKN as N	60	4	N/A				0.2	0.26	0.34	0.5	0.75	1.27	2.71
Total Phosphorus	58	0	N/A				0.02	0.07	0.11	0.14	0.21	0.27	0.83
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	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:** 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	6.7	7.1	7.7	9	10.2	12.2
pH (SU)	85	0	<5	0	0		6.3	6.7	7.1	7.7	9	10.2	12.2
	85	0	<6	0	0		6.5	6.7	6.8	7	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.7	6.8	7	7.2	7.3	7.5
Water Temperature (°C)	85	0	N/A				103	115	128	139	157	168	197
	85	0	>32	0	0		3.3	7	10.8	19.6	22.9	24.2	25.1
<b>Other</b>													
Turbidity (NTU)	60	0	>50	7	11.7	60.5	3.9	6.3	10.1	14.5	21.8	60	240
<b>Nutrients (mg/L)</b>													
NH3 as N	17	1	N/A				0.02	0.04	0.04	0.07	0.13	0.7	0.72
NO2 + NO3 as N	17	0	N/A				0.45	0.51	0.6	0.96	1.94	3.13	6.08
TKN as N	17	0	N/A				0.37	0.39	0.49	0.7	0.88	1.35	1.49
Total Phosphorus	17	2	N/A				0.02	0.02	0.06	0.15	0.2	0.97	2.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	124.6	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:** 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:** 01/19/2010 to 09/24/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	0	0		6.4	6.7	7.5	9	11.5	13.2	14
pH (SU)	48	0	<5	0	0		6.4	6.7	7.5	9	11.5	13.2	14
	47	0	<6	0	0		6.2	7.1	7.2	7.4	7.7	8	8.3
	47	0	>9	0	0		6.2	7.1	7.2	7.4	7.7	8	8.3
Spec. conductance (umhos/cm at 25°C)	47	0	N/A				41	66	69	73	77	84	131
Water Temperature (°C)	49	0	>32	0	0		1.4	4.7	10.2	16.5	22.4	24	25.8
<b>Other</b>													
Hardness (mg/L)	19	0	>100	0	0		21	22	25	26	27	40	46
Total Organic Carbon (mg/L as C)	3	1	N/A				2	2	2	2	4	4	4
TSS (mg/L)	21	2	N/A				6.2	9.1	15.5	26	62	238.4	1100
Turbidity (NTU)	50	0	>50	9	18	94.2	3.7	7.6	15	22.5	45	84.5	750
<b>Nutrients (mg/L)</b>													
NH3 as N	3	0	N/A				0.02	0.02	0.02	0.06	0.08	0.08	0.08
NO2 + NO3 as N	3	0	>10	0	0		0.84	0.84	0.84	0.93	0.96	0.96	0.96
TKN as N	3	1	N/A				0.2	0.2	0.2	0.3	0.63	0.63	0.63
Total Phosphorus	3	0	N/A				0.04	0.04	0.04	0.08	0.17	0.17	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
50	431.1	20	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:** 01/05/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	0	0		6.9	7.9	8.4	9.9	12.4	13.3	14.4
pH (SU)	59	0	<5	0	0		6.9	7.9	8.4	9.9	12.4	13.3	14.4
	59	0	<6	0	0		6	6.7	7.2	7.4	7.6	7.9	8.5
Spec. conductance (umhos/cm at 25°C)	58	0	>9	0	0		6	6.7	7.2	7.4	7.6	7.9	8.5
	58	0	N/A				28	51	56	58	60	62	69
Water Temperature (°C)	59	0	>32	0	0		0.4	4.6	8.1	15.8	22.5	24.4	28.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		15	16	16	18	20	39	62
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	14	61.5	235.1	1600
Turbidity (NTU)	60	0	>50	7	11.7	60.5	1.4	2.7	4.7	7.3	15.8	55	700
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	176.7	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:** 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:** 01/11/2010 to 07/29/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		5.6	6.3	6.8	7.4	8.6	10.5	11.5
pH (SU)	61	0	<5	0	0		5.6	6.3	6.8	7.4	8.6	10.5	11.5
	61	0	<6	0	0		6.5	6.6	6.7	6.9	7.1	7.2	7.4
	61	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)	61	0	N/A				82	112	129	144	159	167	188
Water Temperature (°C)	61	0	>32	0	0		2.6	4.4	9.7	19.6	23	24.6	27
<b>Other</b>													
Turbidity (NTU)	43	0	>50	4	9.3		3.4	5.8	9.6	14	29	56	850

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	211.1	6	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:** 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:** 01/11/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	7.3	7.5	8.1	9.4	11.1	11.7
pH (SU)	85	0	<5	0	0		6.4	7.3	7.5	8.1	9.4	11.1	11.7
	85	0	<6	0	0		6.4	6.9	7	7.1	7.3	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.9	7	7.1	7.3	7.3	7.5
Water Temperature (°C)	85	0	N/A				76	94	106	114	122	129	150
	85	0	>32	0	0		2.1	5.9	10	18.8	22	24	26.5
<b>Other</b>													
Turbidity (NTU)	60	0	>50	10	16.7	92.7	5	8.6	11	18	33	150	500
<b>Nutrients (mg/L)</b>													
NH3 as N	17	0	N/A				0.03	0.04	0.04	0.07	0.1	0.19	0.2
NO2 + NO3 as N	17	0	N/A				0.69	0.72	0.78	0.92	1.06	1.22	1.22
TKN as N	17	0	N/A				0.27	0.28	0.34	0.42	0.68	1.16	1.67
Total Phosphorus	17	4	N/A				0.02	0.02	0.02	0.06	0.12	0.26	0.54

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	137.8	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:** 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:** 01/05/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6.1	7.2	7.5	8.9	11.2	12.5	13.1
pH (SU)	57	0	<5	0	0		6.1	7.2	7.5	8.9	11.2	12.5	13.1
	59	0	<6	0	0		6.2	6.8	7.1	7.3	7.5	7.7	8.8
	59	0	>9	0	0		6.2	6.8	7.1	7.3	7.5	7.7	8.8
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				80	105	124	144	159	168	195
Water Temperature (°C)	59	0	>32	0	0		2.7	6.1	9.4	17.4	21.8	23.7	24.7
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				34	37	40	42	45	50	50
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	10.5	59.8	308.9	520
Turbidity (NTU)	59	0	>50	9	15.3	86.8	2.7	5	7.6	11	19	95	350
<b>Nutrients (mg/L)</b>													
NH3 as N	59	5	N/A				0.02	0.02	0.02	0.04	0.07	0.1	0.24
NO2 + NO3 as N	59	0	N/A				0.62	0.78	0.98	1.2	1.7	2.3	3.9
TKN as N	58	2	N/A				0.2	0.25	0.31	0.4	0.43	0.78	2.6
Total Phosphorus	58	0	N/A				0.04	0.08	0.12	0.22	0.32	0.48	3.8
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	334.1	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:** 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:** 01/11/2010 to 07/29/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	0	0		6.2	6.8	7.5	8.2	9.4	11.4	11.9
pH (SU)	55	0	<5	0	0		6.2	6.8	7.5	8.2	9.4	11.4	11.9
	55	0	<6	0	0		6.2	6.8	7.1	7.2	7.3	7.3	7.4
	55	0	>9	0	0		6.2	6.8	7.1	7.2	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				79	109	124	130	140	152	171
Water Temperature (°C)	55	0	>32	0	0		2.4	4.5	8.6	18.8	22.4	24.9	26.8
<b>Other</b>													
Turbidity (NTU)	40	0	>50	7	17.5	90	4.7	10	12	18.5	33.5	129	360

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
40	107.2	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:** 01/11/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.2	7	7.4	8	9.4	10.8	11.8
pH (SU)	85	0	<5	0	0		6.2	7	7.4	8	9.4	10.8	11.8
	85	0	<6	0	0		6.3	6.8	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.3	6.8	7	7.1	7.2	7.3	7.4
Water Temperature (°C)	85	0	N/A				63	96	109	124	130	141	181
	85	0	>32	0	0		2.5	5.7	10	19	23	24.8	27.3
<b>Other</b>													
Turbidity (NTU)	60	0	>50	7	11.7	60.5	4.1	8.9	12	20	30.2	60	250
<b>Nutrients (mg/L)</b>													
NH3 as N	17	1	N/A				0.02	0.03	0.04	0.05	0.07	0.07	0.08
NO2 + NO3 as N	17	0	N/A				0.4	0.44	0.54	0.66	0.77	0.88	0.93
TKN as N	17	0	N/A				0.24	0.29	0.32	0.39	0.65	1.08	1.22
Total Phosphorus	17	4	N/A				0.02	0.02	0.02	0.05	0.06	0.17	0.28

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	120.4	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:** 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:** 01/11/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.2	7	7.3	7.8	9.2	10.8	11.6
pH (SU)	85	0	<5	0	0		6.2	7	7.3	7.8	9.2	10.8	11.6
	85	0	<6	0	0		6.4	6.7	6.9	7.1	7.2	7.3	7.4
	85	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)	85	0	N/A				64	98	111	118	141	150	169
Water Temperature (°C)	85	0	>32	0	0		2.4	5.9	10.4	19.2	23	24.7	27.4
<b>Other</b>													
TSS (mg/L)	17	0	N/A				6.6	6.6	9	16	23	63.6	94
Turbidity (NTU)	60	0	>50	8	13.3	75.1	5.2	11	14.2	20	34.8	80	220
<b>Nutrients (mg/L)</b>													
NH3 as N	17	2	N/A				0.02	0.02	0.04	0.05	0.08	0.09	0.1
NO2 + NO3 as N	17	0	N/A				0.47	0.53	0.66	0.81	0.96	1.09	1.31
TKN as N	17	0	N/A				0.31	0.32	0.38	0.41	0.7	1.25	1.45
Total Phosphorus	17	4	N/A				0.02	0.02	0.04	0.12	0.16	0.23	0.29
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	142.2	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:** THIRD CRK AT SR 1970 NR WOODLEAF

**Station #:** Q3934500

**Hydrologic Unit Code:** 03040102

**Latitude:** 35.76742

**Longitude:** -80.62609

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 12-108-20-4

**Time period:** 01/05/2010 to 12/02/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6.4	6.9	7.4	8.5	11	12.4	13.5
pH (SU)	57	0	<5	0	0		6.4	6.9	7.4	8.5	11	12.4	13.5
	59	0	<6	1	1.7		5.9	6.9	7.1	7.4	7.5	7.6	7.8
	59	0	>9	0	0		5.9	6.9	7.1	7.4	7.5	7.6	7.8
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				76	102	117	125	144	172	199
Water Temperature (°C)	59	0	>32	0	0		2.3	6	9.4	16.6	22.2	24.1	25.8
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				32	32	36	37	40	43	49
TSS (mg/L)	18	1	N/A				6.2	6.2	9.8	14	21.8	54.9	180
Turbidity (NTU)	59	0	>50	10	16.9	93.3	3.3	6.1	10	16	29	130	230
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	476.2	28	48.3	> 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:** 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:** 01/11/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.9	7.3	7.9	9.2	10.8	11.6
pH (SU)	85	0	<5	0	0		6.4	6.9	7.3	7.9	9.2	10.8	11.6
	85	0	<6	0	0		6.5	6.9	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.9	7	7.1	7.2	7.3	7.4
	85	0	N/A				68	96	111	120	132	144	161
Water Temperature (°C)	85	0	>32	0	0		3.7	7	11.2	20	23.6	25.4	28.1
<b>Other</b>													
TSS (mg/L)	60	0	N/A				4.6	8.5	13	22	43	98.7	251
Turbidity (NTU)	60	0	>50	12	20	98.5	6.5	11.2	18	25.5	47.8	109	260
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.01	0.03	0.06	0.08	0.11	0.18	0.24
NO2 + NO3 as N	60	0	N/A				0.57	0.73	0.8	0.92	1.02	1.13	1.25
TKN as N	60	2	N/A				0.2	0.25	0.32	0.49	0.84	1.22	3.73
Total Phosphorus	58	1	N/A				0.02	0.04	0.06	0.09	0.14	0.23	0.32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	102.4	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:** 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:** 01/11/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.8	6.5	6.9	7.5	8.8	10.1	11.4
pH (SU)	85	0	<5	0	0		5.8	6.5	6.9	7.5	8.8	10.1	11.4
	85	0	<6	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.5
	85	0	>9	0	0		6.4	6.7	6.8	6.9	7.1	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				117	129	141	158	170	183	219
Water Temperature (°C)	85	0	>32	0	0		2.9	6.4	10.6	19.6	23.2	24.9	27.4
<b>Other</b>													
TSS (mg/L)	17	0	N/A				5.1	5.6	7.6	16	45	198.2	283
Turbidity (NTU)	60	0	>50	11	18.3	96.6	3.5	8.1	12	18	31.8	155	750
<b>Nutrients (mg/L)</b>													
NH3 as N	17	1	N/A				0.02	0.02	0.06	0.07	0.1	0.3	0.54
NO2 + NO3 as N	17	0	N/A				0.43	0.44	0.52	0.78	1.12	1.44	1.51
TKN as N	17	0	N/A				0.22	0.26	0.34	0.58	0.98	1.76	2.03
Total Phosphorus	17	3	N/A				0.02	0.02	0.03	0.08	0.2	0.59	0.94
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	260.5	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:** SECOND CRK AT US 70 NR BARBER

**Station #:** Q4120000

**Hydrologic Unit Code:** 03040102

**Latitude:** 35.71840

**Longitude:** -80.59538

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 12-108-21

**Time period:** 01/27/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	1	1.8		2.1	7.1	7.6	9.1	11.4	12.8	14.3
pH (SU)	57	0	<5	1	1.8		2.1	7.1	7.6	9.1	11.4	12.8	14.3
	59	0	<6	0	0		6	6.9	7.2	7.4	7.6	7.7	8.1
Spec. conductance (umhos/cm at 25°C)	59	0	>9	0	0		6	6.9	7.2	7.4	7.6	7.7	8.1
	59	0	N/A				82	108	119	133	141	146	167
Water Temperature (°C)	59	0	>32	0	0		2.5	6.1	9.1	16	21.8	24.2	26.1
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				39	43	45	46	48	50	50
Total Organic Carbon (mg/L as C)	3	1	N/A				2	2	2	3	4	4	4
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	12	31.5	115.2	150
Turbidity (NTU)	59	0	>50	11	18.6	96.9	2.9	5.1	7.8	13	25	140	320
<b>Nutrients (mg/L)</b>													
NH3 as N	3	0	N/A				0.02	0.02	0.02	0.02	0.04	0.04	0.04
NO2 + NO3 as N	3	0	N/A				0.82	0.82	0.82	0.84	0.86	0.86	0.86
TKN as N	2	0	N/A				0.3	0.3	0.3	0.42	0.54	0.54	0.54
Total Phosphorus	3	0	N/A				0.05	0.05	0.05	0.1	0.21	0.21	0.21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	406	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:** SECOND CRK AT US 601 NR SALISBURY

**Station #:** Q4165000

**Hydrologic Unit Code:** 03040102

**Latitude:** 35.76247

**Longitude:** -80.51075

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 12-108-21

**Time period:** 01/11/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	6.7	7.2	7.7	9	10.7	11.5
pH (SU)	85	0	<5	0	0		6.3	6.7	7.2	7.7	9	10.7	11.5
	85	0	<6	0	0		6.6	6.8	6.9	7.1	7.2	7.3	7.5
	85	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)	85	0	N/A				98	115	120	129	141	162	207
Water Temperature (°C)	85	0	>32	0	0		3.1	6.8	10.6	19.6	23.1	25.1	27.8
<b>Other</b>													
TSS (mg/L)	17	0	N/A				3.5	4	4.9	14	36.5	267.8	419
Turbidity (NTU)	60	0	>50	12	20	98.5	4.5	8.4	12.2	19.5	34.2	186	750
<b>Nutrients (mg/L)</b>													
NH3 as N	17	1	N/A				0.02	0.04	0.04	0.07	0.11	0.25	0.46
NO2 + NO3 as N	17	0	N/A				0.35	0.37	0.48	0.63	1.05	1.18	1.39
TKN as N	17	0	N/A				0.31	0.33	0.37	0.52	0.78	1.92	2.08
Total Phosphorus	17	3	N/A				0.02	0.02	0.02	0.09	0.17	0.66	0.94
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	125	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:** 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:** 01/06/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	1	1.8		2.9	6	6.8	8.5	11.2	12.5	14.6
pH (SU)	57	0	<5	1	1.8		2.9	6	6.8	8.5	11.2	12.5	14.6
	59	0	<6	1	1.7		5.9	7.2	7.4	7.5	7.7	7.9	8.3
	59	0	>9	0	0		5.9	7.2	7.4	7.5	7.7	7.9	8.3
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				77	110	130	157	173	191	262
Water Temperature (°C)	59	0	>32	0	0		1.6	5.8	9.9	16.8	22.2	24.3	26.4
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				36	38	48	56	62	71	75
TSS (mg/L)	20	14	N/A				6.2	6.2	6.2	6.2	14.2	45.2	94
Turbidity (NTU)	59	0	>50	3	5.1		2.4	3.3	4.5	8.5	16	32	160
<b>Nutrients (mg/L)</b>													
NH3 as N	59	23	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.08
NO2 + NO3 as N	59	2	N/A				0.02	0.09	0.22	0.34	0.41	0.51	0.6
TKN as N	56	2	N/A				0.2	0.21	0.25	0.3	0.38	0.47	1.2
Total Phosphorus	57	0	N/A				0.02	0.03	0.04	0.04	0.06	0.12	0.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	321.9	17	29.8	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:** 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
<b>Other</b>													
Hardness (mg/L)	4	0	N/A				56	56	56	60	62	63	63

**Key:**

# result: number of observations  
 # ND: number of observations reported to be below detection level (non-detect)  
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level  
 Results not meeting EL: number and percentages of observations not meeting evaluation level  
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)  
 Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/12/2010 to 07/30/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		6	6.4	6.8	7.5	8.7	10.9	11.8
	61	0	<5	0	0		6	6.4	6.8	7.5	8.7	10.9	11.8
pH (SU)	61	0	<6	0	0		6.6	6.8	6.9	7	7.2	7.3	7.3
	61	0	>9	0	0		6.6	6.8	6.9	7	7.2	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				96	116	132	151	168	177	204
Water Temperature (°C)	61	0	>32	0	0		3	4.7	10.6	20	23.8	25.8	28.1
<b>Other</b>													
Turbidity (NTU)	43	0	>50	1	2.3		2.7	5.7	9.1	14	18	29.8	120

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	118.7	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:** YADKIN RIV AT NC 150 NR SPENCER

**Station #:** Q4660000

**Hydrologic Unit Code:** 03040103

**Latitude:** 35.72303      **Longitude:** -80.39050

**Stream class:** WS-V

**Agency:** NCAMBNT

**NC stream index:** 12-(108.5)

**Time period:** 01/06/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	1	1.8		1	5.9	6.8	7.9	11.2	12.6	13.9
pH (SU)	57	0	<5	1	1.8		1	5.9	6.8	7.9	11.2	12.6	13.9
	59	0	<6	0	0		6.2	6.8	7.1	7.4	7.6	8	8.2
	59	0	>9	0	0		6.2	6.8	7.1	7.4	7.6	8	8.2
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				45	73	82	94	108	117	161
Water Temperature (°C)	59	0	>32	0	0		1.1	5.9	9.1	18.9	24.3	28.2	30.9
<b>Other</b>													
Chlorophyll a (ug/L)	3	0	>40	0	0		5	5	5	10	19	19	19
Hardness (mg/L)	20	0	>100	0	0		22	23	25	26	29	32	40
TSS (mg/L)	20	0	N/A				10	10.1	12	19.5	25	321	500
Turbidity (NTU)	60	0	>50	8	13.3	75.1	5.6	8.4	11.2	21.5	30	69	400
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	101	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:** YADKIN RIV AT NC 150 NR SPENCER

**Station #:** Q4660000

**Hydrologic Unit Code:** 03040103

**Latitude:** 35.72303

**Longitude:** -80.39050

**Stream class:** WS-V

**Agency:** NCS PST

**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
<b>Other</b>													
Hardness (mg/L)	4	0	>100	0	0		27	27	27	28	28	28	28

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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

**Hydrologic Unit Code:** 03040103

**Latitude:** 35.72303

**Longitude:** -80.39050

**Stream class:** WS-V

**Agency:** YPDRBA

**NC stream index:** 12-(108.5)

**Time period:** 01/12/2010 to 12/23/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	77	0	<4	0	0		5.9	6.8	7.2	7.6	8.8	10.6	12.3
pH (SU)	77	0	<5	0	0		5.9	6.8	7.2	7.6	8.8	10.6	12.3
	77	0	<6	0	0		6.6	6.9	7	7.1	7.2	7.2	7.4
	77	0	>9	0	0		6.6	6.9	7	7.1	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				79	113	123	132	143	158	202
Water Temperature (°C)	77	0	>32	0	0		2	5.2	10.2	19.8	24	24.8	29.5
<b>Other</b>													
Chlorophyll a (ug/L)	14	0	>40	0	0		2	2	4	11	27	36	39
Turbidity (NTU)	55	0	>50	6	10.9	52.3	6.2	9.5	16	22	28	65	370
<b>Nutrients (mg/L)</b>													
NH3 as N	55	0	N/A				0.02	0.05	0.07	0.09	0.11	0.18	0.39
NO2 + NO3 as N	55	0	>10	0	0		0.17	0.29	0.46	0.69	1.02	1.17	1.59
TKN as N	55	1	N/A				0.2	0.43	0.56	0.69	0.81	0.99	1.58
Total Phosphorus	53	1	N/A				0.02	0.05	0.07	0.1	0.15	0.23	0.32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	119.8	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:** 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:** 01/12/2010 to 12/23/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.7	6.2	6.4	6.8	8.3	10	11.2
pH (SU)	85	0	<5	1	1.2		4.7	6.2	6.4	6.8	8.3	10	11.2
	85	0	<6	0	0		6.4	6.5	6.6	6.8	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.5	6.6	6.8	7	7.1	7.3
Water Temperature (°C)	85	0	N/A				95	127	152	164	174	179	217
	85	0	>32	0	0		0.3	4.6	11.2	19.6	22.8	24.1	27.6
<b>Other</b>													
Turbidity (NTU)	60	0	>50	6	10		2	9.2	10.2	17	29.5	58.5	600
<b>Nutrients (mg/L)</b>													
NH3 as N	17	0	N/A				0.04	0.04	0.06	0.09	0.12	0.23	0.25
NO2 + NO3 as N	17	0	N/A				0.14	0.16	0.26	0.41	0.46	0.63	0.73
TKN as N	17	0	N/A				0.36	0.37	0.48	0.71	0.88	1.17	1.31
Total Phosphorus	17	1	N/A				0.02	0.04	0.08	0.1	0.17	0.3	0.44
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	262.5	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:** 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:** 01/12/2010 to 12/23/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.1	6.5	6.8	7.4	8.8	10.5	12.2
pH (SU)	85	0	<5	0	0		6.1	6.5	6.8	7.4	8.8	10.5	12.2
	85	0	<6	0	0		6.5	6.7	6.8	7	7.2	7.2	7.7
	85	0	>9	0	0		6.5	6.7	6.8	7	7.2	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				107	137	148	168	183	214	325
Water Temperature (°C)	85	0	>32	0	0		0.6	5.2	11	20.2	23.2	24.6	28.5
<b>Other</b>													
Turbidity (NTU)	60	0	>50	5	8.3		1.3	3.2	5.1	9.6	23.2	48.8	150
<b>Nutrients (mg/L)</b>													
NH3 as N	60	6	N/A				0.01	0.02	0.04	0.05	0.09	0.16	0.35
NO2 + NO3 as N	60	2	N/A				0.02	0.04	0.2	0.36	0.63	0.84	1.39
TKN as N	60	3	N/A				0.2	0.26	0.38	0.54	0.77	1.09	2.57
Total Phosphorus	58	7	N/A				0.02	0.02	0.04	0.05	0.08	0.15	0.33
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	208.1	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:** TOWN CRK AT SR 2168 NR DUKE

**Station #:** Q5360000

**Hydrologic Unit Code:** 03040103

**Latitude:** 35.66353

**Longitude:** -80.35418

**Stream class:** WS-V

**Agency:** NCAMBNT

**NC stream index:** 12-(108.5)

**Time period:** 01/06/2010 to 12/02/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		4.3	7.8	8.4	9.9	10.7	11.8	13.5
pH (SU)	57	0	<5	1	1.8		4.3	7.8	8.4	9.9	10.7	11.8	13.5
	59	0	<6	1	1.7		5.8	7.3	7.7	8.4	8.9	9.3	9.5
Spec. conductance (umhos/cm at 25°C)	59	0	>9	13	22	99.5	5.8	7.3	7.7	8.4	8.9	9.3	9.5
	59	0	N/A				78	91	101	110	121	158	326
Water Temperature (°C)	58	0	>32	4	6.9		2.6	6.9	11.2	20.9	28.7	31.4	34.1
<b>Other</b>													
Chlorophyll a (ug/L)	59	0	>40	27	45.8	>99.9	5	17	25	40	51	65	75
Hardness (mg/L)	20	0	>100	0	0		27	28	31	34	39	39	54
TSS (mg/L)	20	3	N/A				6.2	8.1	9.4	12	16	17.9	31
Turbidity (NTU)	60	0	>25	11	18.3	96.6	5.3	7.6	9.4	13.5	19.8	44.5	75
<b>Nutrients (mg/L)</b>													
NH3 as N	59	42	N/A				0.02	0.02	0.02	0.02	0.02	0.13	0.39
NO2 + NO3 as N	59	30	>10	0	0		0.02	0.02	0.02	0.02	0.16	0.33	0.42
TKN as N	56	0	N/A				0.4	0.6	0.66	0.84	0.96	1	1.4
Total Phosphorus	57	0	N/A				0.03	0.05	0.07	0.08	0.1	0.12	0.21
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	8.8	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:** 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.8	6.4	7.2	7.6	8.8	10.4	11.9
pH (SU)	85	0	<5	0	0		5.8	6.4	7.2	7.6	8.8	10.4	11.9
	85	0	<6	0	0		6.5	6.8	7	7.1	7.3	7.4	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.8	7	7.1	7.3	7.4	7.9
Water Temperature (°C)	85	0	N/A				88	111	126	144	170	213	273
	85	0	>32	0	0		3.6	6.7	10.4	20.2	23.2	24.8	26.2
<b>Other</b>													
Turbidity (NTU)	60	0	>50	5	8.3		4.1	4.7	5.6	9.7	14.8	40	190
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.02	0.02	0.04	0.07	0.1	0.14	0.42
NO2 + NO3 as N	60	3	N/A				0.02	0.06	0.14	0.22	0.3	1.08	2.36
TKN as N	60	2	N/A				0.2	0.24	0.34	0.46	0.68	0.99	1.4
Total Phosphorus	58	3	N/A				0.02	0.02	0.04	0.06	0.1	0.15	0.28
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	97.3	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:** 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:** 01/11/2010 to 09/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	52	0	<4	1	1.9		3.9	5.1	6	7	10.1	12.4	15.2
	52	0	<5	4	7.7		3.9	5.1	6	7	10.1	12.4	15.2
pH (SU)	52	0	<6	0	0		7	7.1	7.1	7.2	7.4	7.4	8.6
	52	0	>9	0	0		7	7.1	7.1	7.2	7.4	7.4	8.6
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				142	182	228	298	352	410	538
Water Temperature (°C)	53	0	>32	0	0		3.5	6.2	11.2	17.8	22.7	24.7	27.6
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				53	58	61	70	78	88	100
TSS (mg/L)	19	13	N/A				6.2	6.2	6.2	6.2	10	32	39
Turbidity (NTU)	54	0	>50	1	1.9		2.1	2.4	3.4	5.6	11.8	29	70
<b>Nutrients (mg/L)</b>													
NH3 as N	54	2	N/A				0.02	0.02	0.04	0.06	0.11	0.6	1.1
NO2 + NO3 as N	54	0	N/A				0.26	1.15	1.88	3	5.52	7.15	8.8
TKN as N	53	0	N/A				0.49	0.65	0.73	0.85	1.1	1.6	2.2
Total Phosphorus	54	0	N/A				0.06	0.1	0.11	0.18	0.34	0.55	0.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	225.5	15	27.8	89.3									

**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:** 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.4	5.4	5.9	6.3	7.2	8.6	10
pH (SU)	85	0	<5	2	2.4		3.4	5.4	5.9	6.3	7.2	8.6	10
	85	0	<6	0	0		6.1	6.4	6.5	6.8	7	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.1	6.4	6.5	6.8	7	7.3	7.7
Water Temperature (°C)	85	0	N/A				103	149	164	194	248	371	432
	85	0	>32	0	0		3.5	6.6	10.4	19.9	23	24.8	25.9
<b>Other</b>													
Turbidity (NTU)	60	0	>50	7	11.7	60.5	3.3	5.1	8.3	14.5	29	64.5	210
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.02	0.05	0.07	0.1	0.16	0.29	0.66
NO2 + NO3 as N	60	0	N/A				0.41	0.9	1.78	2.88	3.92	5.6	9.16
TKN as N	60	0	N/A				0.3	0.56	0.64	0.88	1.13	1.47	2.07
Total Phosphorus	58	1	N/A				0.02	0.05	0.09	0.15	0.28	0.55	0.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	267.3	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:** 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:** 01/12/2010 to 12/22/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.1	5.8	6.4	6.8	7.8	9.3	10.8
pH (SU)	85	0	<5	1	1.2		4.1	5.8	6.4	6.8	7.8	9.3	10.8
	85	0	<6	0	0		6.3	6.6	6.6	6.8	7.1	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.3	6.6	6.6	6.8	7.1	7.3	7.5
Water Temperature (°C)	85	0	N/A				94	145	168	191	226	308	382
	85	0	>32	0	0		3.8	6.8	10.8	20.1	23	24.7	26.3
<b>Other</b>													
Turbidity (NTU)	60	0	>50	7	11.7	60.5	3.4	5.5	8.6	13.5	25.2	68.5	280
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.02	0.04	0.06	0.09	0.13	0.21	0.84
NO2 + NO3 as N	60	0	N/A				0.43	0.61	1.02	1.57	2.27	4.23	10.88
TKN as N	60	0	N/A				0.36	0.45	0.54	0.74	1.03	1.36	1.65
Total Phosphorus	58	0	N/A				0.02	0.05	0.08	0.13	0.21	0.37	0.53

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	173.1	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:** 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:** 01/12/2010 to 12/22/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.2	6.5	6.9	7.5	8.4	10.1	12
pH (SU)	85	0	<5	0	0		6.2	6.5	6.9	7.5	8.4	10.1	12
	85	0	<6	0	0		6.6	6.7	6.8	7	7.2	7.4	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.6	6.7	6.8	7	7.2	7.4	7.9
Water Temperature (°C)	85	0	N/A				98	121	137	161	180	190	236
	85	0	>32	0	0		4.1	6.8	10.6	20.4	23.1	24.3	26
<b>Other</b>													
Turbidity (NTU)	60	0	>50	4	6.7		3.1	4.6	7.3	12	20	45.9	90
<b>Nutrients (mg/L)</b>													
NH3 as N	60	6	N/A				0.01	0.02	0.05	0.07	0.1	0.16	0.45
NO2 + NO3 as N	60	0	N/A				0.19	0.36	0.52	0.83	1.28	2.46	5.59
TKN as N	60	1	N/A				0.2	0.31	0.4	0.57	0.72	0.89	3.11
Total Phosphorus	58	2	N/A				0.02	0.04	0.05	0.09	0.15	0.25	0.57
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	144.6	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:** 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 12/23/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<4	0	0		7.1	7.1	7.2	7.8	9.2	10.4	12.2
pH (SU)	24	0	<5	0	0		7.1	7.1	7.2	7.8	9.2	10.4	12.2
	24	0	<6	0	0		6.8	6.8	6.9	7.1	7.3	7.3	7.4
	24	0	>9	0	0		6.8	6.8	6.9	7.1	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				109	122	174	248	334	399	442
Water Temperature (°C)	24	0	>32	0	0		0.9	6.5	12.2	18.8	22.1	22.7	23.5
<b>Other</b>													
Turbidity (NTU)	17	0	>50	1	5.9		1.6	1.7	4.2	7.1	37	156	600
<b>Nutrients (mg/L)</b>													
NH3 as N	17	0	N/A				0.04	0.04	0.06	0.09	0.13	0.34	0.9
NO2 + NO3 as N	17	0	N/A				0.23	0.29	0.56	0.66	0.77	0.98	1.02
TKN as N	17	0	N/A				0.54	0.64	0.84	0.95	1.25	1.84	3.28
Total Phosphorus	17	2	N/A				0.02	0.02	0.04	0.07	0.1	0.27	0.71
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
17	313.7	8	47.1	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:** 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:** 01/11/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	54	0	<4	0	0		4.8	6.4	7.2	8.6	12.3	13.4	15.7
pH (SU)	54	0	<5	1	1.9		4.8	6.4	7.2	8.6	12.3	13.4	15.7
	53	0	<6	0	0		7	7.3	7.4	7.6	7.6	7.9	8.8
Spec. conductance (umhos/cm at 25°C)	53	0	>9	0	0		7	7.3	7.4	7.6	7.6	7.9	8.8
Water Temperature (°C)	52	0	N/A				95	141	193	272	326	384	407
	55	0	>32	0	0		2.1	6.1	10.1	17.5	21.8	24.4	27
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				32	39	51	60	63	67	68
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.5	12	15
Turbidity (NTU)	56	1	>50	2	3.6		1	1.3	2	3.2	7.2	20.2	85
<b>Nutrients (mg/L)</b>													
NH3 as N	56	28	N/A				0.02	0.02	0.02	0.02	0.03	0.07	1.4
NO2 + NO3 as N	56	2	N/A				0.02	0.32	0.43	0.56	0.75	1.13	1.8
TKN as N	54	0	N/A				0.37	0.4	0.47	0.56	0.63	0.78	1.8
Total Phosphorus	56	0	N/A				0.02	0.03	0.04	0.06	0.08	0.1	0.28
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	175.3	12	21.4	55.2									

**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:** 01/28/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	51	0	<4	0	0		5.6	6	6.6	8	10.9	12.8	13.4
pH (SU)	51	0	<5	0	0		5.6	6	6.6	8	10.9	12.8	13.4
	50	0	<6	0	0		6.9	7.1	7.3	7.4	7.6	7.7	8
	50	0	>9	0	0		6.9	7.1	7.3	7.4	7.6	7.7	8
Spec. conductance (umhos/cm at 25°C)	49	0	N/A				28	118	146	174	216	252	316
Water Temperature (°C)	51	0	>32	0	0		1.6	5.2	8.7	17.3	22.3	25	28.5
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				37	39	47	53	58	67	72
Total Organic Carbon (mg/L as C)	3	0	N/A				5	5	5	6	8	8	8
TSS (mg/L)	21	6	N/A				6.2	6.2	7	14	27	62	85
Turbidity (NTU)	52	0	>50	7	13.5	73.8	4.2	5.4	11.2	17.5	30.5	60	270
<b>Nutrients (mg/L)</b>													
NH3 as N	52	7	N/A				0.02	0.02	0.03	0.04	0.05	0.08	0.23
NO2 + NO3 as N	52	0	N/A				0.3	0.39	0.48	0.69	0.88	1.1	2.7
TKN as N	52	0	N/A				0.36	0.45	0.48	0.56	0.63	0.67	1.2
Total Phosphorus	52	0	N/A				0.03	0.05	0.07	0.08	0.1	0.14	0.41
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
51	215	12	23.5	68.5									

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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 12/23/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<4	0	0		6.9	7	7.3	7.6	9	10.3	12.1
pH (SU)	24	0	<5	0	0		6.9	7	7.3	7.6	9	10.3	12.1
	24	0	<6	0	0		6.8	6.8	7	7.1	7.2	7.2	7.3
	24	0	>9	0	0		6.8	6.8	7	7.1	7.2	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				90	107	134	151	162	168	217
Water Temperature (°C)	24	0	>32	0	0		1.1	6.8	12.4	19.6	22.9	23.7	24.3
<b>Other</b>													
Turbidity (NTU)	17	0	>50	6	35.3	99.5	9.3	9.9	15	33	60	78	90
<b>Nutrients (mg/L)</b>													
NH3 as N	17	0	N/A				0.06	0.07	0.07	0.1	0.11	0.16	0.22
NO2 + NO3 as N	17	0	N/A				0.44	0.45	0.49	0.77	1.61	2.02	2.23
TKN as N	17	0	N/A				0.56	0.62	0.71	0.76	1.06	1.43	1.75
Total Phosphorus	17	1	N/A				0.02	0.02	0.04	0.09	0.14	0.2	0.25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
17	359.3	9	52.9	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  
Basinwide Assessment Report

**Location:** ABBOTTS CRK AT I 85 NR LEXINGTON

**Station #:** Q5940000

**Hydrologic Unit Code:** 03040103

**Latitude:** 35.78730

**Longitude:** -80.23565

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 12-119-(6)

**Time period:** 01/12/2010 to 07/30/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		5.1	6.2	6.8	7.5	8.8	10.7	11.4
pH (SU)	61	0	<5	0	0		5.1	6.2	6.8	7.5	8.8	10.7	11.4
	61	0	<6	0	0		6.4	6.8	6.9	7.1	7.2	7.3	7.4
	61	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)	61	0	N/A				97	122	126	149	164	183	276
Water Temperature (°C)	61	0	>32	0	0		3.2	4.6	9.8	19.9	24	24.6	26.6
<b>Other</b>													
TSS (mg/L)	2	0	N/A				13	13	13	23	33	33	33
Turbidity (NTU)	43	0	>50	3	7		3.8	6.2	12	19	27	43	90
<b>Nutrients (mg/L)</b>													
NH3 as N	43	0	N/A				0.02	0.04	0.07	0.09	0.12	0.16	0.2
NO2 + NO3 as N	43	0	N/A				0.2	0.36	0.45	0.58	0.91	1.09	1.89
TKN as N	43	1	N/A				0.2	0.39	0.52	0.63	0.81	1.06	1.31
Total Phosphorus	41	2	N/A				0.02	0.04	0.07	0.09	0.12	0.19	0.71
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
43	156	7	16.3										

**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:** 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:** 01/11/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	1	1.8		3.4	4.7	6.6	8.1	10.1	12.2	14.9
pH (SU)	55	0	<5	7	12.7	69	3.4	4.7	6.6	8.1	10.1	12.2	14.9
	54	0	<6	0	0		7	7	7.2	7.3	7.6	7.8	8.8
Spec. conductance (umhos/cm at 25°C)	54	0	>9	0	0		7	7	7.2	7.3	7.6	7.8	8.8
	52	0	N/A				94	107	140	162	201	252	281
Water Temperature (°C)	55	0	>32	1	1.8		1.8	5.4	9.2	19.1	24.6	26.7	33.9
<b>Other</b>													
Chlorophyll a (ug/L)	52	0	>40	15	28.8	>99.9	1	2	4	18	46	91	170
Hardness (mg/L)	20	0	>100	0	0		37	38	44	49	56	63	63
TSS (mg/L)	20	4	N/A				6.2	6.2	8.4	15	19.5	26.7	32
Turbidity (NTU)	56	0	>50	6	10.7	50.6	5.1	10.1	15	18	26.8	55	130
<b>Nutrients (mg/L)</b>													
NH3 as N	55	15	N/A				0.02	0.02	0.02	0.04	0.09	0.15	0.35
NO2 + NO3 as N	55	5	>10	0	0		0.02	0.02	0.25	0.41	0.66	0.97	1.6
TKN as N	53	0	N/A				0.44	0.54	0.64	0.78	1	1.26	1.7
Total Phosphorus	55	0	N/A				0.05	0.08	0.1	0.12	0.14	0.2	0.23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	88.7	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:** 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:** 01/12/2010 to 07/30/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		4.7	5.4	6.4	7.2	8.3	10.2	10.9
pH (SU)	61	0	<5	2	3.3		4.7	5.4	6.4	7.2	8.3	10.2	10.9
	61	0	<6	0	0		6.4	6.7	7	7.3	7.4	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	61	0	>9	0	0		6.4	6.7	7	7.3	7.4	7.4	7.5
	59	0	N/A				112	118	128	137	144	170	264
Water Temperature (°C)	61	0	>32	0	0		3	5.4	11.6	21.2	25.8	27.6	30.8
<b>Other</b>													
Chlorophyll a (ug/L)	18	0	>40	6	33.3	99.4	5	7	12	20	49	68	71
Turbidity (NTU)	43	0	>50	3	7		2.5	11	16	23	28	43	100
<b>Nutrients (mg/L)</b>													
NH3 as N	43	0	N/A				0.02	0.05	0.07	0.09	0.15	0.25	0.3
NO2 + NO3 as N	43	1	>10	0	0		0.02	0.09	0.22	0.44	0.63	0.89	1.23
TKN as N	43	0	N/A				0.37	0.53	0.64	0.88	1.08	1.31	1.85
Total Phosphorus	41	0	N/A				0.03	0.05	0.08	0.11	0.14	0.19	0.49
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
43	121	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:** 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:** 01/11/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<4	7	12.7	69	2.2	3.7	5.2	7.3	10.1	12.2	16.2
	55	0	<5	13	23.6	99.7	2.2	3.7	5.2	7.3	10.1	12.2	16.2
pH (SU)	54	0	<6	0	0		6.6	6.8	7.1	7.4	7.9	8.2	9.3
	54	0	>9	1	1.9		6.6	6.8	7.1	7.4	7.9	8.2	9.3
Spec. conductance (umhos/cm at 25°C)	53	0	N/A				62	73	82	88	100	108	148
Water Temperature (°C)	55	0	>32	0	0		3.8	6.3	9.1	18.8	24.6	28.4	30.1
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		20	22	24	25	28	29	36
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	6.8	13.5	20	24
Turbidity (NTU)	56	0	>50	3	5.4		3.3	5.7	7.5	10	22.2	45	110
<b>Nutrients (mg/L)</b>													
NH3 as N	56	4	N/A				0.02	0.02	0.06	0.12	0.18	0.23	0.57
NO2 + NO3 as N	56	2	>10	0	0		0.02	0.16	0.38	0.56	0.74	0.87	1.1
TKN as N	55	0	N/A				0.31	0.42	0.47	0.59	0.69	0.77	1.1
Total Phosphorus	56	0	N/A				0.04	0.05	0.05	0.07	0.1	0.13	0.17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	29.7	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:** 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:** 01/14/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		1.7	6.1	6.4	6.9	8.2	10	11.6
pH (SU)	85	0	<5	1	1.2		1.7	6.1	6.4	6.9	8.2	10	11.6
	85	0	<6	0	0		6.5	6.7	6.8	6.9	7	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.7	6.8	6.9	7	7.2	7.4
Water Temperature (°C)	85	0	N/A				87	145	160	171	190	206	232
	85	0	>32	0	0		3.3	7.7	12.2	21.2	25.2	27.1	29
<b>Other</b>													
Chlorophyll a (ug/L)	18	0	>40	1	5.6		6	9	11	14	19	35	41
TSS (mg/L)	60	4	N/A				2.9	3.1	4.6	6.1	7.9	12	46
Turbidity (NTU)	60	0	>50	3	5		2	4.4	5.7	8.5	12	20	120
<b>Nutrients (mg/L)</b>													
NH3 as N	60	2	N/A				0.02	0.03	0.05	0.08	0.1	0.15	0.5
NO2 + NO3 as N	60	0	>10	0	0		0.02	0.13	0.24	0.44	0.6	0.74	0.82
TKN as N	60	0	N/A				0.25	0.33	0.45	0.6	0.96	1.07	1.84
Total Phosphorus	57	7	N/A				0.02	0.02	0.04	0.06	0.07	0.1	0.88
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	73	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:** 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:** 01/14/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	81	0	<4	0	0		4.3	5.6	6.2	6.6	7.2	9.3	11.2
pH (SU)	81	0	<5	1	1.2		4.3	5.6	6.2	6.6	7.2	9.3	11.2
	81	0	<6	0	0		6.3	6.5	6.6	6.7	6.9	7	7.2
Spec. conductance (umhos/cm at 25°C)	81	0	>9	0	0		6.3	6.5	6.6	6.7	6.9	7	7.2
	81	0	N/A				109	146	161	197	230	271	904
Water Temperature (°C)	81	0	>32	0	0		2.4	7	10.7	20.4	24	26	27.5
<b>Other</b>													
Turbidity (NTU)	57	0	>50	0	0		2.4	3	5.2	8.5	11.5	24.4	50

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
56	194.1	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:** UWHARRIE RIV AT NC 49 NR FARMER

**Station #:** Q6705000

**Hydrologic Unit Code:** 03040103

**Latitude:** 35.64212

**Longitude:** -79.96502

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-2-(1.5)

**Time period:** 01/14/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	1	1.2		3.7	6.6	6.8	7.4	8.6	10.3	12.4
pH (SU)	85	0	<5	1	1.2		3.7	6.6	6.8	7.4	8.6	10.3	12.4
	85	0	<6	0	0		6.7	6.9	7	7.1	7.3	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.7	6.9	7	7.1	7.3	7.3	7.4
Water Temperature (°C)	85	0	N/A				91	108	114	125	140	153	179
	85	0	>32	0	0		3	7.2	11.8	21	25	26.6	28.1
<b>Other</b>													
Turbidity (NTU)	60	0	>50	1	1.7		2.6	4.2	5.8	8.2	14.8	22.8	60

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	83.9	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:** 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:** 01/26/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	<4	0	0		5	5.7	7	9.6	12.6	13.5	14.1
	22	0	<5	0	0		5	5.7	7	9.6	12.6	13.5	14.1
pH (SU)	23	0	<6	2	8.7		5.3	6.1	6.6	6.8	7.1	7.4	7.5
	23	0	>9	0	0		5.3	6.1	6.6	6.8	7.1	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				50	69	79	104	113	118	122
Water Temperature (°C)	23	0	>32	0	0		3.3	5.2	7	11.3	21.6	24.4	26
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		27	28	33	36	38	43	43
TSS (mg/L)	20	13	N/A				6.2	6.2	6.2	6.6	12	37.4	130
Turbidity (NTU)	54	0	>50	4	7.4		2.6	3.4	4.9	7.7	16	45	250
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	71.2	7	13										

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/14/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.8	6.3	6.4	6.8	8.2	9.7	12.2
pH (SU)	85	0	<5	0	0		5.8	6.3	6.4	6.8	8.2	9.7	12.2
	85	0	<6	0	0		6.4	6.6	6.7	6.8	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.6	6.7	6.8	7	7.1	7.3
Water Temperature (°C)	85	0	N/A				97	139	154	164	174	192	303
	85	0	>32	0	0		2.2	6.6	10.6	19.6	23.6	24.9	26.5
<b>Other</b>													
Turbidity (NTU)	59	0	>50	2	3.4		1.2	1.6	2.9	4.5	9.4	24	150
<b>Nutrients (mg/L)</b>													
NH3 as N	59	3	N/A				0.02	0.03	0.04	0.05	0.08	0.1	0.19
NO2 + NO3 as N	59	0	>10	2	3.4		0.44	0.6	1.14	2.07	4.59	5.45	14.12
TKN as N	59	0	N/A				0.2	0.29	0.39	0.6	0.72	0.97	2.62
Total Phosphorus	56	3	N/A				0.02	0.03	0.07	0.14	0.32	0.53	0.76
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	248.7	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:** 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:** 01/14/2010 to 06/12/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	58	0	<4	0	0		5.5	6.7	7.1	7.8	9.4	10.5	12.3
pH (SU)	58	0	<5	0	0		5.5	6.7	7.1	7.8	9.4	10.5	12.3
	58	0	<6	0	0		6.8	6.9	7.1	7.2	7.3	7.3	7.4
	58	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)	58	0	N/A				90	98	106	116	129	139	153
Water Temperature (°C)	58	0	>32	0	0		2.4	6.6	11.6	20.2	24.4	26.6	28.3
<b>Other</b>													
Chlorophyll a (ug/L)	17	0	>40	0	0		3	3	5	11	17	24	33
Turbidity (NTU)	42	0	>50	1	2.4		1.8	2.2	3.5	7.3	10	18.1	65
<b>Nutrients (mg/L)</b>													
NH3 as N	42	1	N/A				0.02	0.04	0.06	0.07	0.09	0.16	0.27
NO2 + NO3 as N	42	0	>10	0	0		0.03	0.15	0.32	0.52	0.64	0.76	0.85
TKN as N	42	1	N/A				0.2	0.25	0.38	0.52	0.74	0.99	1.23
Total Phosphorus	39	5	N/A				0.02	0.02	0.03	0.05	0.07	0.09	0.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
42	71.1	1	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 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:** 01/14/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.7	7.1	7.6	9.2	10.4	12.2
pH (SU)	85	0	<5	0	0		6.4	6.7	7.1	7.6	9.2	10.4	12.2
	85	0	<6	0	0		6.6	6.9	7	7.1	7.2	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.6	6.9	7	7.1	7.2	7.3	8.2
Water Temperature (°C)	85	0	N/A				75	104	115	124	130	142	163
	85	0	>32	0	0		2.3	7.5	12.7	21.1	25.3	26.3	30.5
<b>Other</b>													
Chlorophyll a (ug/L)	18	0	>40	0	0		6	7	12	15	23	29	30
TSS (mg/L)	60	6	N/A				2.5	3.1	4.3	6.4	8.4	11	70
Turbidity (NTU)	60	0	>50	2	3.3		2.6	4.3	5.3	7.4	13.8	22.8	110
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.02	0.03	0.05	0.06	0.09	0.12	0.61
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.04	0.12	0.26	0.4	0.5	0.7
TKN as N	60	0	N/A				0.2	0.32	0.48	0.68	0.94	1.17	1.8
Total Phosphorus	57	10	N/A				0.02	0.02	0.03	0.05	0.06	0.08	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	57.6	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:** PEE DEE RIV AT NC 731 NR SHANKLE

**Station #:** Q7150000

**Hydrologic Unit Code:** 03040104

**Latitude:** 35.20052

**Longitude:** -80.06248

**Stream class:** WS-V B

**Agency:** NCAMBNT

**NC stream index:** 13-(15.5)

**Time period:** 01/12/2010 to 12/10/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	4	7		2.1	4.7	5.6	8.3	11.4	12.8	15.7
pH (SU)	57	0	<5	7	12.3	65.6	2.1	4.7	5.6	8.3	11.4	12.8	15.7
	57	0	<6	1	1.8		5.9	6.6	7	7.4	7.8	8.3	9.4
Spec. conductance (umhos/cm at 25°C)	57	0	>9	1	1.8		5.9	6.6	7	7.4	7.8	8.3	9.4
	55	0	N/A				61	72	78	87	92	97	109
Water Temperature (°C)	58	0	>32	0	0		5.1	7.6	11.6	19.2	25.8	26.9	29.6
<b>Other</b>													
Hardness (mg/L)	20	0	>100	0	0		20	20	22	24	25	27	28
TSS (mg/L)	20	19	N/A				6.2	6.2	6.2	6.2	6.2	7.8	12
Turbidity (NTU)	60	0	>50	1	1.7		1.4	2	2.4	3.4	6.4	22.7	120
<b>Nutrients (mg/L)</b>													
NH3 as N	60	15	N/A				0.02	0.02	0.02	0.03	0.04	0.07	0.14
NO2 + NO3 as N	60	0	>10	0	0		0.12	0.2	0.32	0.47	0.66	0.79	0.88
TKN as N	60	1	N/A				0.2	0.27	0.31	0.35	0.44	0.49	0.58
Total Phosphorus	60	0	N/A				0.02	0.02	0.02	0.03	0.04	0.07	0.27
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	13.9	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:** 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:** 01/14/2010 to 07/24/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		4.7	6.3	6.5	7.2	8.3	10.4	12.1
pH (SU)	61	0	<5	1	1.6		4.7	6.3	6.5	7.2	8.3	10.4	12.1
	61	0	<6	0	0		6.6	6.7	6.8	7	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	61	0	>9	0	0		6.6	6.7	6.8	7	7.2	7.3	7.4
	61	0	N/A				93	110	124	136	153	164	173
Water Temperature (°C)	61	0	>32	0	0		1.5	6.5	11.8	19.8	24.2	26	27.4
<b>Other</b>													
Turbidity (NTU)	42	0	>50	2	4.8		1.9	3.6	4.8	7.9	13.2	25.5	95

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
42	109.7	2	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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Resources  
Basinwide Assessment Report

**Location:** ROCKY RIV AT SR 2420 NR DAVIDSON

**Station #:** Q7330000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.47490

**Longitude:** -80.77948

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 13-17

**Time period:** 01/11/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<4	0	0		6.6	6.9	7.4	8.6	10.4	11.9	14.6
pH (SU)	56	0	<5	0	0		6.6	6.9	7.4	8.6	10.4	11.9	14.6
	57	0	<6	0	0		6.5	7.1	7.3	7.5	7.7	7.8	8.6
	57	0	>9	0	0		6.5	7.1	7.3	7.5	7.7	7.8	8.6
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				150	234	282	337	433	470	568
Water Temperature (°C)	58	0	>32	0	0		2.6	7.7	10.8	18	23.2	24.9	27.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				43	56	60	68	77	84	97
TSS (mg/L)	20	1	N/A				6.2	6.9	12.5	18.5	37.2	51	120
Turbidity (NTU)	59	0	>50	5	8.5		3.7	5.9	7.6	13	21	50	130
<b>Nutrients (mg/L)</b>													
NH3 as N	58	29	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.56
NO2 + NO3 as N	58	0	N/A				0.63	2.17	4.88	7.4	12	14.2	20
TKN as N	57	4	N/A				0.2	0.41	0.54	0.68	0.81	0.94	1.6
Total Phosphorus	57	0	N/A				0.23	0.31	0.54	0.89	1.45	1.82	2.1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
57	356.4	24	42.1	> 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:** ROCKY RIV AT SR 2420 NR DAVIDSON

**Station #:** Q7330000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.47490

**Longitude:** -80.77948

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17

**Time period:** 01/13/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.6	7.1	7.6	9	10.6	12.4
pH (SU)	85	0	<5	0	0		5.9	6.6	7.1	7.6	9	10.6	12.4
	85	0	<6	0	0		6.5	6.8	7	7.1	7.2	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.8	7	7.1	7.2	7.4	7.5
Water Temperature (°C)	85	0	N/A				102	160	204	328	380	419	463
	85	0	>32	0	0		1	6.2	11.2	20.1	23.2	24.3	26.1
<b>Other</b>													
Turbidity (NTU)	60	0	>50	10	16.7	92.7	2.2	4.7	6.4	13	28.8	89	230
<b>Nutrients (mg/L)</b>													
NH3 as N	60	5	N/A				0.01	0.02	0.03	0.07	0.1	0.2	0.73
NO2 + NO3 as N	60	0	N/A				0.06	0.26	0.45	6.08	10.83	12.9	19.68
TKN as N	60	3	N/A				0.2	0.38	0.56	0.78	1	1.22	2.11
Total Phosphorus	57	2	N/A				0.02	0.05	0.16	0.75	1.04	1.43	1.74
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	173.1	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:** ROCKY RIV AT US 29 NR HARRISBURG

**Station #:** Q7450000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.35600

**Longitude:** -80.67506

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17

**Time period:** 01/13/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	6.8	7	7.6	9	10.6	12.7
pH (SU)	85	0	<5	0	0		6.3	6.8	7	7.6	9	10.6	12.7
	85	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.3	7.5
	85	0	N/A				70	121	134	153	170	178	297
Water Temperature (°C)	85	0	>32	0	0		1.3	6.5	11.7	20.4	24	24.9	26.5
<b>Other</b>													
Turbidity (NTU)	60	0	>50	13	21.7	99.4	2.5	3.9	6.3	11.4	48.8	129	280

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	116.1	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:** 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:** 01/13/2010 to 07/22/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		5.8	6.4	6.7	7.3	8.9	10.4	12.5
pH (SU)	61	0	<5	0	0		5.8	6.4	6.7	7.3	8.9	10.4	12.5
	61	0	<6	0	0		6.6	6.8	6.9	7	7.2	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	61	0	>9	0	0		6.6	6.8	6.9	7	7.2	7.3	7.8
Water Temperature (°C)	61	0	N/A				81	126	154	172	192	208	234
	61	0	>32	0	0		1.6	6.2	11.9	19.4	24	25.4	27
<b>Other</b>													
Turbidity (NTU)	43	0	>50	6	14	74.2	1.8	3	4.1	6.8	14	94	120
<b>Nutrients (mg/L)</b>													
NH3 as N	43	3	N/A				0.01	0.02	0.05	0.09	0.13	0.21	1.13
NO2 + NO3 as N	43	3	N/A				0.01	0.05	0.1	0.18	0.41	0.55	1.27
TKN as N	43	7	N/A				0.2	0.2	0.26	0.39	0.88	1.25	1.8
Total Phosphorus	40	7	N/A				0.02	0.02	0.02	0.05	0.1	0.13	0.16

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	193	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:** 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:** 01/13/2010 to 07/22/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		6	6.6	6.9	7.4	8.6	10.4	12.7
pH (SU)	61	0	<5	0	0		6	6.6	6.9	7.4	8.6	10.4	12.7
	61	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.2	7.4
	61	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				102	135	152	167	182	205	473
Water Temperature (°C)	61	0	>32	0	0		1.7	6.3	11.8	19.1	24	25.8	27
<b>Other</b>													
Turbidity (NTU)	43	0	>50	6	14	74.2	2.6	3.5	5.2	7.4	16	69	230
<b>Nutrients (mg/L)</b>													
NH3 as N	43	1	N/A				0.01	0.04	0.06	0.09	0.14	0.17	1.56
NO2 + NO3 as N	43	0	N/A				0.11	0.28	0.71	2.56	3.97	7.79	14.52
TKN as N	43	3	N/A				0.2	0.23	0.35	0.68	1.05	1.28	2.5
Total Phosphorus	40	0	N/A				0.03	0.09	0.2	0.33	0.57	1.4	1.87

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
43	155.1	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 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:** 01/13/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.2	6.6	6.8	7.3	8.8	10.2	12.3
pH (SU)	85	0	<5	0	0		6.2	6.6	6.8	7.3	8.8	10.2	12.3
	85	0	<6	0	0		6.7	6.9	6.9	7.1	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.7	6.9	6.9	7.1	7.2	7.3	7.5
Water Temperature (°C)	85	0	N/A				112	139	148	162	180	201	377
	85	0	>32	0	0		1.9	6.8	11.5	20.4	24	25.3	27.1
<b>Other</b>													
Turbidity (NTU)	60	0	>50	17	28.3	>99.9	2.9	4.6	7	11.5	65	159	270
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.01	0.03	0.05	0.08	0.11	0.23	0.4
NO2 + NO3 as N	60	0	N/A				0.45	1.28	2.69	4.86	6.99	8.56	11.52
TKN as N	60	1	N/A				0.2	0.52	0.69	0.84	1.02	1.31	1.93
Total Phosphorus	57	0	N/A				0.2	0.36	0.52	0.73	1.13	1.47	2.07
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	140.1	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:** 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:** 01/13/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.8	7.2	7.6	9.3	10.7	12.8
pH (SU)	85	0	<5	0	0		6.4	6.8	7.2	7.6	9.3	10.7	12.8
	85	0	<6	0	0		6.7	6.9	7.1	7.2	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.7	6.9	7.1	7.2	7.3	7.4	7.5
Water Temperature (°C)	85	0	N/A				86	112	123	135	154	170	216
	85	0	>32	0	0		1.1	5.9	11.2	19.5	23.4	24.6	26.2
<b>Other</b>													
TSS (mg/L)	17	5	N/A				2.8	2.9	3	9.5	22.5	78.8	166
Turbidity (NTU)	60	0	>50	7	11.7	60.5	1.6	2.8	5.1	8	26.2	59.5	200
<b>Nutrients (mg/L)</b>													
NH3 as N	17	4	N/A				0.02	0.02	0.03	0.05	0.08	0.1	0.13
NO2 + NO3 as N	17	0	N/A				0.06	0.09	0.2	0.3	0.36	0.44	0.47
TKN as N	17	0	N/A				0.23	0.26	0.42	0.52	0.86	1.22	1.28
Total Phosphorus	17	2	N/A				0.02	0.02	0.04	0.06	0.09	0.2	0.4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	110	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:** 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:** 01/13/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	6.7	7	7.4	8.8	10.4	12.4
pH (SU)	85	0	<5	0	0		6.3	6.7	7	7.4	8.8	10.4	12.4
	85	0	<6	0	0		6.5	6.9	7	7.1	7.2	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.9	7	7.1	7.2	7.3	7.7
Water Temperature (°C)	85	0	N/A				92	118	128	138	153	170	306
	85	0	>32	0	0		1.9	6.8	11.8	20.4	24.2	25.6	28.1
<b>Other</b>													
Turbidity (NTU)	60	0	>50	12	20	98.5	1.7	3.7	5.6	13	35.8	150	460
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.01	0.03	0.04	0.07	0.1	0.14	0.2
NO2 + NO3 as N	60	0	N/A				0.43	0.77	1.5	2.48	3.6	6.88	11.52
TKN as N	60	5	N/A				0.2	0.22	0.46	0.69	0.84	1.08	1.42
Total Phosphorus	57	0	N/A				0.05	0.16	0.21	0.32	0.56	0.96	1.51

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	102.6	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:** 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:** 01/07/2010 to 12/03/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	0	0		6.6	7.7	8.2	9.9	11.9	13.6	15.2
pH (SU)	58	0	<6	0	0		6.6	7.5	7.7	7.9	8.2	8.5	9.1
Spec. conductance (umhos/cm at 25°C)	58	0	>9	1	1.7		6.6	7.5	7.7	7.9	8.2	8.5	9.1
Water Temperature (°C)	59	0	>32	0	0		87	129	162	185	198	209	232
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				38	43	54	60	66	71	74
TSS (mg/L)	20	18	N/A				6.2	6.2	6.2	6.2	12	12	24
Turbidity (NTU)	60	0	>50	6	10		1.1	1.6	2	3.2	7.8	53.5	310
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	238.3	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:** 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:** 01/13/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	75	0	<4	0	0		5.2	5.8	6.2	6.7	7.9	9.6	12
	75	0	<5	0	0		5.2	5.8	6.2	6.7	7.9	9.6	12
pH (SU)	75	0	<6	0	0		6.3	6.5	6.5	6.7	6.9	7.1	7.3
	75	0	>9	0	0		6.3	6.5	6.5	6.7	6.9	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	75	0	N/A				90	137	166	179	204	217	244
Water Temperature (°C)	75	0	>32	0	0		1.6	6.1	10.7	18.7	23.3	24.2	26.6
<b>Other</b>													
TSS (mg/L)	17	5	N/A				2.8	2.9	3	5.4	26.5	65.2	194
Turbidity (NTU)	54	0	>50	7	13	70.6	2.1	3.6	4.8	8	22.5	75	160
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	268.6	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:** ROCKY RIV AT US 601 NR CONCORD

**Station #:** Q8210000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.32445      **Longitude:** -80.51537

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17

**Time period:** 01/13/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.7	7.2	7.5	9	10.6	12.7
pH (SU)	85	0	<5	0	0		6.4	6.7	7.2	7.5	9	10.6	12.7
	85	0	<6	0	0		6.8	7	7.1	7.2	7.2	7.3	7.4
	85	0	>9	0	0		6.8	7	7.1	7.2	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				90	117	121	130	142	164	370
Water Temperature (°C)	85	0	>32	0	0		2	7.1	12.1	21.1	24.6	26.2	28.3
<b>Other</b>													
Turbidity (NTU)	60	0	>50	15	25	99.9	1.7	3.9	7.1	13.5	57.5	168	590
<b>Nutrients (mg/L)</b>													
NH3 as N	60	7	N/A				0.01	0.02	0.04	0.06	0.11	0.16	0.49
NO2 + NO3 as N	60	0	N/A				0.59	0.91	1.68	3.28	4.68	6.25	9.56
TKN as N	60	0	N/A				0.21	0.4	0.52	0.65	0.91	1.24	1.82
Total Phosphorus	57	0	N/A				0.11	0.21	0.3	0.4	0.6	0.89	1.28

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	86.6	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:** ROCKY RIV AT SR 1006 NR CONCORD

**Station #:** Q8220000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.31397

**Longitude:** -80.47864

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 13-17

**Time period:** 01/07/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	0	0		5.9	6.6	7.7	9.5	10.8	12.5	14.1
pH (SU)	59	0	<5	0	0		5.9	6.6	7.7	9.5	10.8	12.5	14.1
	58	0	<6	0	0		6.3	7.1	7.3	7.5	7.7	8	8.5
	58	0	>9	0	0		6.3	7.1	7.3	7.5	7.7	8	8.5
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				98	138	205	262	318	358	440
Water Temperature (°C)	59	0	>32	0	0		2.6	7.9	12.2	19	25.5	27.6	30.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				5	53	58	66	73	80	81
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8.9	21	76.7	448
Turbidity (NTU)	60	0	>50	10	16.7	92.7	1.7	2.8	4.4	10.5	28	89.5	330
<b>Nutrients (mg/L)</b>													
NH3 as N	59	9	N/A				0.02	0.02	0.02	0.06	0.09	0.15	0.49
NO2 + NO3 as N	59	0	N/A				0.78	1.4	2.7	4.8	6.4	8.5	13
TKN as N	59	0	N/A				0.4	0.56	0.68	0.8	0.91	1.3	2.4
Total Phosphorus	59	0	N/A				0.26	0.34	0.46	0.78	1	1.2	1.6
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	215.7	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:** ROCKY RIV AT SR 1006 NR CONCORD

**Station #:** Q8220000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.31397

**Longitude:** -80.47864

**Stream class:** C

**Agency:** NCS PST

**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	Max
<b>Other</b>													
Hardness (mg/L)	4	0	N/A				70	70	70	72	74	74	74

**Key:**

# result: number of observations

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

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

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

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

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance 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:** 01/13/2010 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	1	1.6		2.5	6.4	6.8	7.3	9	10.5	15.2
pH (SU)	61	0	<5	1	1.6		2.5	6.4	6.8	7.3	9	10.5	15.2
	61	0	<6	0	0		6.6	6.8	6.8	7.1	7.2	7.3	8.3
Spec. conductance (umhos/cm at 25°C)	61	0	>9	0	0		6.6	6.8	6.8	7.1	7.2	7.3	8.3
	61	0	N/A				112	122	128	141	152	163	211
Water Temperature (°C)	61	0	>32	0	0		0.2	6.4	10.9	19.4	24.2	25.7	27.1
<b>Other</b>													
Turbidity (NTU)	43	0	>50	5	11.6	56.7	3.5	5.2	7.9	14	26	84	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:** 01/13/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.2	6.2	6.7	7.8	8.8	10.6	14.5
pH (SU)	85	0	<5	0	0		5.2	6.2	6.7	7.8	8.8	10.6	14.5
	85	0	<6	0	0		6.3	6.6	6.7	7.2	7.3	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.3	6.6	6.7	7.2	7.3	7.3	7.8
Water Temperature (°C)	85	0	N/A				89	93	96	110	164	185	247
	85	0	>32	0	0		0.1	6.2	11.6	19.7	23.8	24.8	26.5
<b>Other</b>													
Turbidity (NTU)	59	0	>50	11	18.6	96.9	2.5	3.9	7	14	42	110	290

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	105.5	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:** ROCKY RIV AT SR 1114 NR MIDLAND

**Station #:** Q8355000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.22117

**Longitude:** -80.48712

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17

**Time period:** 01/13/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.3	6.7	7	7.7	9.2	10.4	13.4
pH (SU)	85	0	<5	0	0		6.3	6.7	7	7.7	9.2	10.4	13.4
	85	0	<6	1	1.2		5.8	6.9	7	7.1	7.2	7.3	8.3
	85	0	>9	0	0		5.8	6.9	7	7.1	7.2	7.3	8.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				95	112	121	131	153	187	429
Water Temperature (°C)	85	0	>32	0	0		1.8	6.8	12.2	20.8	24.9	25.9	29.8
<b>Other</b>													
TSS (mg/L)	60	8	N/A				2.8	2.9	6.2	14.5	50.8	120.9	677
Turbidity (NTU)	60	0	>50	16	26.7	>99.9	1.4	5.2	8.9	16	62.5	178	450
<b>Nutrients (mg/L)</b>													
NH3 as N	60	3	N/A				0.01	0.03	0.05	0.08	0.11	0.18	1.21
NO2 + NO3 as N	60	0	N/A				0.75	1.08	2.18	4.44	6.26	9.46	13.84
TKN as N	60	0	N/A				0.42	0.61	0.72	0.88	1.08	1.47	2.38
Total Phosphorus	57	0	N/A				0.14	0.29	0.42	0.64	0.84	1.04	1.56
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	87.4	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:** 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:** 01/13/2010 to 07/23/2013

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		6.3	6.6	6.9	7.4	8.8	10.2	12.8
pH (SU)	61	0	<5	0	0		6.3	6.6	6.9	7.4	8.8	10.2	12.8
	61	0	<6	0	0		6.6	6.9	7	7.1	7.2	7.3	7.4
	61	0	>9	0	0		6.6	6.9	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	61	0	N/A				114	126	130	144	160	172	195
Water Temperature (°C)	61	0	>32	0	0		0.4	5.8	12.6	19.6	24	25.3	26.9
<b>Other</b>													
TSS (mg/L)	43	13	N/A				2	2.9	3	4.6	8.9	18.6	42
Turbidity (NTU)	43	0	>50	2	4.7		3.1	4.4	5.8	7.9	21	32.6	85
<b>Nutrients (mg/L)</b>													
NH3 as N	43	3	N/A				0.01	0.02	0.04	0.07	0.1	0.13	0.2
NO2 + NO3 as N	43	0	N/A				0.07	0.23	0.35	0.5	0.69	2.55	9.72
TKN as N	43	1	N/A				0.2	0.33	0.43	0.56	0.76	1.05	1.25
Total Phosphorus	40	1	N/A				0.02	0.04	0.07	0.08	0.13	0.64	1.35
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
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 **Hydrologic Unit Code:** 03040105  
**Latitude:** 35.13090 **Longitude:** -80.63105 **Stream class:** C  
**Agency:** NCAMBNT **NC stream index:** 13-17-18

**Time period:** 01/07/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	0	0		5.9	7.1	7.6	8.6	11.6	14	14.9
pH (SU)	58	0	<6	0	0		5.9	7.1	7.6	8.6	11.6	14	14.9
Spec. conductance (umhos/cm at 25°C)	58	0	>9	2	3.4		6.3	7.4	7.5	7.6	8	8.5	9.4
Water Temperature (°C)	58	0	N/A				6.3	7.4	7.5	7.6	8	8.5	9.4
	59	0	>32	0	0		72	105	116	134	150	158	183
	59	0					2.8	7.4	12	18.7	23.1	24.9	27.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				36	36	37	44	49	50	52
TSS (mg/L)	60	47	N/A				6.2	6.2	6.2	6.2	6.8	12	33
Turbidity (NTU)	60	0	>50	5	8.3		1.1	1.7	3	4.9	14	38.2	100
<b>Nutrients (mg/L)</b>													
NH3 as N	60	41	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.05
NO2 + NO3 as N	60	1	N/A				0.02	0.2	0.42	0.56	0.94	1.39	2.3
TKN as N	59	3	N/A				0.2	0.23	0.25	0.34	0.44	0.59	1
Total Phosphorus	59	0	N/A				0.02	0.05	0.07	0.12	0.15	0.2	0.26
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	310	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:** GOOSE CRK AT SR 1524 NR MINT HILL  
**Station #:** Q8360000 **Hydrologic Unit Code:** 03040105  
**Latitude:** 35.13090 **Longitude:** -80.63105 **Stream class:** C  
**Agency:** YPDRBA **NC stream index:** 13-17-18

**Time period:** 01/13/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.7	6.3	6.6	7.1	8.4	9.8	12.7
pH (SU)	85	0	<5	0	0		5.7	6.3	6.6	7.1	8.4	9.8	12.7
	85	0	<6	0	0		6.5	6.8	6.8	6.9	7.1	7.2	7.4
	85	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)	85	0	N/A				101	144	158	171	182	204	236
Water Temperature (°C)	85	0	>32	0	0		0.7	6	12	20.1	24.2	25.6	27.4
<b>Other</b>													
Turbidity (NTU)	60	0	>50	3	5		2.4	3.3	4.9	7.6	19.8	39.7	110

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	171.1	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:** GOOSE CRK AT SR 1547 NR BRIEF

**Station #:** Q8374000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.17587

**Longitude:** -80.51129

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 13-17-18

**Time period:** 01/07/2010 to 12/03/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	59	0	<4	0	0		6.1	7	7.5	8.6	12.1	14.4	16.7
pH (SU)	59	0	<5	0	0		6.1	7	7.5	8.6	12.1	14.4	16.7
	58	0	<6	0	0		6.1	7.2	7.5	7.7	7.8	8.4	9.9
	58	0	>9	1	1.7		6.1	7.2	7.5	7.7	7.8	8.4	9.9
Spec. conductance (umhos/cm at 25°C)	58	0	N/A				81	110	142	174	214	240	312
Water Temperature (°C)	59	0	>32	0	0		1.1	6.8	10.8	18.2	23.1	24.5	27.8
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				27	36	43	46	50	55	55
TSS (mg/L)	60	50	N/A				6.2	6.2	6.2	6.2	6.8	21.1	127
Turbidity (NTU)	60	4	>50	2	3.3		1	1.4	2.2	5	9.3	23.6	80
<b>Nutrients (mg/L)</b>													
NH3 as N	60	39	N/A				0.02	0.02	0.02	0.02	0.02	0.03	4.2
NO2 + NO3 as N	60	2	N/A				0.02	0.18	0.56	1.15	1.78	2.6	11
TKN as N	59	0	N/A				0.27	0.45	0.52	0.59	0.72	1.1	5.8
Total Phosphorus	59	0	N/A				0.05	0.1	0.16	0.2	0.29	0.39	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	187.4	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:** ROCKY RIV AT SR 1606 NR MONROE

**Station #:** Q8385000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.16987

**Longitude:** -80.47277

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17

**Time period:** 01/13/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.5	6.9	7.5	9.1	10.3	14.5
pH (SU)	85	0	<5	0	0		6.4	6.5	6.9	7.5	9.1	10.3	14.5
	85	0	<6	0	0		6.7	6.8	6.9	7.1	7.2	7.3	8.9
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.7	6.8	6.9	7.1	7.2	7.3	8.9
Water Temperature (°C)	85	0	N/A				104	118	126	141	164	181	462
	85	0	>32	0	0		1.7	7	12.5	20.8	25	26.1	30.3
<b>Other</b>													
Turbidity (NTU)	60	0	>50	15	25	99.9	2.4	2.9	5.6	10.5	65	179	390
<b>Nutrients (mg/L)</b>													
NH3 as N	60	4	N/A				0.01	0.02	0.05	0.08	0.1	0.22	0.68
NO2 + NO3 as N	60	0	N/A				0.78	1.11	1.97	4.11	6.54	8.21	13.84
TKN as N	60	0	N/A				0.39	0.56	0.71	0.86	1.09	1.73	2.84
Total Phosphorus	57	0	N/A				0.14	0.24	0.36	0.55	0.76	0.99	1.54

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	89.9	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:** 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:** 01/13/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	83	0	<4	1	1.2		3.8	5	5.3	5.7	6.7	8.3	10.3
	83	0	<5	8	9.6		3.8	5	5.3	5.7	6.7	8.3	10.3
pH (SU)	83	0	<6	0	0		6.1	6.3	6.3	6.5	6.7	6.8	7.3
	83	0	>9	0	0		6.1	6.3	6.3	6.5	6.7	6.8	7.3
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				120	212	251	292	359	382	426
Water Temperature (°C)	83	0	>32	0	0		1.7	5.7	11.2	19.5	23.9	25.4	28.2
<b>Other</b>													
Turbidity (NTU)	59	0	>50	8	13.6	76.5	3.6	6.7	9.6	15	25	60	110

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	360.6	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:** 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:** 01/13/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	83	0	<4	0	0		4.8	5.4	5.6	6.1	7	8.5	10.6
pH (SU)	83	0	<5	1	1.2		4.8	5.4	5.6	6.1	7	8.5	10.6
	83	0	<6	0	0		6.3	6.4	6.5	6.6	6.8	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	83	0	>9	0	0		6.3	6.4	6.5	6.6	6.8	6.9	7.3
	83	0	N/A				171	193	224	270	318	344	408
Water Temperature (°C)	83	0	>32	0	0		1.7	5.8	11.1	19.9	23.8	25.6	28.4
<b>Other</b>													
Turbidity (NTU)	59	0	>50	5	8.5		3.5	6	7.8	13	29	45	80

<b>Fecal Coliform Screening(#/100mL)</b>				
# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	245	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:** CROOKED CRK AT NC 218 NR MONROE

**Station #:** Q8388000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.13302

**Longitude:** -80.48958

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17-20

**Time period:** 01/13/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		5.9	6.1	6.4	6.9	8.2	9.8	14.4
pH (SU)	85	0	<5	0	0		5.9	6.1	6.4	6.9	8.2	9.8	14.4
	85	0	<6	0	0		6.5	6.6	6.7	6.9	7	7.2	7.5
	85	0	>9	0	0		6.5	6.6	6.7	6.9	7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				107	139	150	170	192	214	365
Water Temperature (°C)	85	0	>32	0	0		0.5	6.7	12.2	20.3	24	25.7	27.3
<b>Other</b>													
TSS (mg/L)	17	4	N/A				2.8	2.8	3	4.8	14.5	19.4	25
Turbidity (NTU)	60	0	>50	8	13.3	75.1	2.1	4.2	6	12	29	69.5	190
<b>Nutrients (mg/L)</b>													
NH3 as N	17	2	N/A				0.02	0.02	0.03	0.05	0.08	0.11	0.2
NO2 + NO3 as N	17	0	N/A				1.07	1.13	1.52	2.37	4.56	12.03	15.2
TKN as N	17	0	N/A				0.63	0.64	0.76	0.95	1	1.2	1.21
Total Phosphorus	17	0	N/A				0.18	0.2	0.3	0.43	0.72	1.34	2.14
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	186.7	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:** CROOKED CRK AT SR 1601 NR MONROE

**Station #:** Q8388900

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.13808

**Longitude:** -80.50538

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17-20

**Time period:** 01/13/2010 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	61	0	<4	0	0		5.3	5.7	6.2	6.8	8.2	10	14.3
pH (SU)	61	0	<5	0	0		5.3	5.7	6.2	6.8	8.2	10	14.3
	61	0	<6	0	0		6.2	6.5	6.7	6.8	7.1	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	61	0	>9	0	0		6.2	6.5	6.7	6.8	7.1	7.3	7.4
	61	0	N/A				107	145	160	174	208	269	437
Water Temperature (°C)	61	0	>32	0	0		0.4	6.5	11	19.4	24	25.9	27
<b>Other</b>													
Turbidity (NTU)	43	0	>50	4	9.3		2.1	3.6	4.9	8.1	20	51.2	120

**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

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.16900

**Longitude:** -80.34600

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17

**Time period:** 08/07/2013 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<4	0	0		6.8	6.8	7	7.3	9.6	10	10.2
	24	0	<5	0	0		6.8	6.8	7	7.3	9.6	10	10.2
pH (SU)	24	0	<6	0	0		6.7	6.8	7	7.1	7.2	7.3	7.4
	24	0	>9	0	0		6.7	6.8	7	7.1	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				124	130	141	152	164	222	238
Water Temperature (°C)	24	0	>32	0	0		6	7	11	21	24.7	25.4	26.1
<b>Other</b>													
Turbidity (NTU)	17	0	>50	5	29.4	97.8	2.7	2.9	6.1	18	60	100	140
<b>Nutrients (mg/L)</b>													
NH3 as N	17	1	N/A				0.02	0.02	0.04	0.06	0.07	0.09	0.1
NO2 + NO3 as N	17	0	N/A				0.73	1.2	1.84	2.97	4.82	6.77	6.78
TKN as N	17	0	N/A				0.55	0.62	0.7	0.9	1.38	1.75	1.75
Total Phosphorus	17	0	N/A				0.03	0.06	0.2	0.49	0.71	0.94	1
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
17	96.9	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 1968 NR OAKBORO

**Station #:** Q8715000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.26667

**Longitude:** -80.25693

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-17-31

**Time period:** 01/13/2010 to 07/22/2013

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	48	0	<4	0	0		5.7	6.5	6.8	7.4	9.1	10.9	13.2
pH (SU)	48	0	<5	0	0		5.7	6.5	6.8	7.4	9.1	10.9	13.2
	48	0	<6	0	0		6.4	6.7	6.8	7	7.1	7.3	8.2
	48	0	>9	0	0		6.4	6.7	6.8	7	7.1	7.3	8.2
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				106	133	145	163	176	204	397
Water Temperature (°C)	48	0	>32	0	0		1.4	4.3	9.8	18.2	24.1	26.1	28.7
<b>Other</b>													
Turbidity (NTU)	35	0	>50	4	11.4	53	2.1	3.5	4.8	6.8	12	64	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:** 01/12/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6.1	6.9	8.1	9.3	11.6	13.9	15.5
pH (SU)	57	0	<5	0	0		6.1	6.9	8.1	9.3	11.6	13.9	15.5
	57	0	<6	0	0		6.4	7.1	7.4	7.6	7.8	8.4	8.8
	57	0	>9	0	0		6.4	7.1	7.4	7.6	7.8	8.4	8.8
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				78	107	153	171	247	313	398
Water Temperature (°C)	58	0	>32	0	0		1.8	6.2	9.6	18.6	23.8	27.7	28.9
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				34	38	42	46	50	60	61
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	10.7	19.2	692
Turbidity (NTU)	60	0	>50	4	6.7		1.1	1.7	2	2.8	5	21.5	300
<b>Nutrients (mg/L)</b>													
NH3 as N	1	0	N/A				0.03	0.03	0.03	0.03	0.03	0.03	0.03
NO2 + NO3 as N	1	0	N/A				6.6	6.6	6.6	6.6	6.6	6.6	6.6
TKN as N	1	0	N/A				0.95	0.95	0.95	0.95	0.95	0.95	0.95
Total Phosphorus	1	0	N/A				0.18	0.18	0.18	0.18	0.18	0.18	0.18
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	139.3	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:** 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:** 01/14/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	2	2.4		1.7	6.3	6.5	6.9	8.2	9.8	12.3
pH (SU)	85	0	<5	2	2.4		1.7	6.3	6.5	6.9	8.2	9.8	12.3
	85	0	<6	0	0		6.4	6.6	6.7	6.9	7	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.6	6.7	6.9	7	7.1	7.3
Water Temperature (°C)	85	0	N/A				134	147	160	177	192	208	502
	85	0	>32	0	0		1.1	6.2	10.8	19.4	23.8	24.7	26.5
<b>Other</b>													
Turbidity (NTU)	60	0	>50	0	0		3.6	4.4	7	11	18.8	30.9	45
<b>Nutrients (mg/L)</b>													
NH3 as N	60	1	N/A				0.02	0.03	0.05	0.08	0.13	0.17	0.4
NO2 + NO3 as N	60	0	N/A				0.23	1.72	4.14	6.92	10.54	18.18	20.2
TKN as N	60	0	N/A				0.39	0.83	1.03	1.22	1.52	1.94	4.9
Total Phosphorus	57	0	N/A				0.08	0.23	0.45	0.88	1.36	2.06	2.62

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	166.9	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:** 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:** 01/14/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.9	6.4	6.7	7.2	8.6	10	12.6
pH (SU)	85	0	<5	1	1.2		4.9	6.4	6.7	7.2	8.6	10	12.6
	85	0	<6	0	0		6.5	6.7	6.8	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.5	6.7	6.8	6.9	7.1	7.2	7.3
	85	0	N/A				122	145	153	165	178	588	819
Water Temperature (°C)	85	0	>32	0	0		1.2	6.2	10.8	19.6	24	24.7	26.8
<b>Other</b>													
Turbidity (NTU)	60	0	>50	1	1.7		2.2	4.6	6.3	10.5	20	31.9	60
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.02	0.03	0.06	0.09	0.14	0.26	0.8
NO2 + NO3 as N	60	0	N/A				1.22	4.2	9.59	14.14	22.18	33.98	38.5
TKN as N	60	0	N/A				0.92	1.09	1.26	1.46	1.72	1.98	2.79
Total Phosphorus	57	0	N/A				0.33	0.52	1.16	1.8	2.54	4.06	4.84

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	147.5	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:** 01/12/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	0	0		6	6.5	7.4	8.7	11.6	13.6	15.6
pH (SU)	57	0	<5	0	0		6	6.5	7.4	8.7	11.6	13.6	15.6
	57	0	<6	0	0		6.6	7	7.2	7.5	7.6	8.3	8.9
Spec. conductance (umhos/cm at 25°C)	57	0	>9	0	0		6.6	7	7.2	7.5	7.6	8.3	8.9
Water Temperature (°C)	55	0	N/A				115	185	250	349	636	874	939
	58	0	>32	0	0		3	6.7	10.8	19.6	23.9	27.4	29.5
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				18	47	56	74	110	159	163
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	12	40.9	253
Turbidity (NTU)	60	1	>50	2	3.3		1	1.1	1.9	3.4	7.8	23.8	260
<b>Nutrients (mg/L)</b>													
NH3 as N	57	23	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.38
NO2 + NO3 as N	57	0	N/A				1.8	3.28	5.35	7.8	16.5	26	30
TKN as N	56	3	N/A				0.2	0.72	0.85	1	1.2	1.6	2.3
Total Phosphorus	56	0	N/A				0.32	0.55	0.74	1.15	1.8	2.96	4
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	135.6	9	15.5										

**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:** 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:** 01/14/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	2	2.4		0.4	5.4	5.8	6.3	7	9	11.9
	84	0	<5	3	3.6		0.4	5.4	5.8	6.3	7	9	11.9
pH (SU)	84	0	<6	0	0		6.2	6.4	6.5	6.7	6.8	7	7.4
	84	0	>9	0	0		6.2	6.4	6.5	6.7	6.8	7	7.4
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				91	148	163	182	207	218	317
Water Temperature (°C)	84	0	>32	0	0		1	5.5	10	19.2	23.3	24.2	26.2
<b>Other</b>													
TSS (mg/L)	59	12	N/A				2	2.9	3	3.9	7.8	16	193
Turbidity (NTU)	59	0	>50	1	1.7		3.9	5.4	6.6	9.7	17	35	150
<b>Nutrients (mg/L)</b>													
NH3 as N	59	0	N/A				0.01	0.05	0.08	0.14	0.25	0.42	4.42
NO2 + NO3 as N	59	4	>10	1	1.7		0.01	0.02	0.13	0.94	2.25	3.66	11.92
TKN as N	59	0	N/A				0.43	0.89	1.16	1.5	2.12	2.57	8.02
Total Phosphorus	56	0	N/A				0.03	0.14	0.24	0.5	0.71	1.13	2.22
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
59	178.8	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:** ROCKY RIV AT SR 1935 NR NORWOOD

**Station #:** Q9120000

**Hydrologic Unit Code:** 03040105

**Latitude:** 35.15688

**Longitude:** -80.16583

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 13-17

**Time period:** 01/12/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	<4	1	1.8		3.8	6.6	7.3	8.8	11.6	13.6	15.3
pH (SU)	57	0	<5	1	1.8		3.8	6.6	7.3	8.8	11.6	13.6	15.3
	57	0	<6	0	0		6.3	7	7.4	7.7	8.3	8.7	9.6
	57	0	>9	3	5.3		6.3	7	7.4	7.7	8.3	8.7	9.6
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				88	123	170	207	280	389	454
Water Temperature (°C)	58	0	>32	0	0		2.2	5.5	10	20.2	25	29.4	31.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				32	41	52	60	67	78	84
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	7.6	16.8	268.4	618
Turbidity (NTU)	60	0	>50	14	23.3	99.8	1.1	2.2	3.6	9.4	27	168	310
<b>Nutrients (mg/L)</b>													
NH3 as N	58	31	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.18
NO2 + NO3 as N	58	0	N/A				1.2	1.6	2.05	2.6	4	6.06	8.9
TKN as N	56	1	N/A				0.43	0.54	0.63	0.74	0.9	1.41	2.7
Total Phosphorus	58	0	N/A				0.15	0.23	0.29	0.44	0.64	0.86	1.2
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
58	140.7	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:** ROCKY RIV AT SR 1935 NR NORWOOD  
**Station #:** Q9120000 **Hydrologic Unit Code:** 03040105  
**Latitude:** 35.15688 **Longitude:** -80.16583 **Stream class:** C  
**Agency:** NCS PST **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
<b>Other</b>												
Hardness (mg/L)	4	0	N/A				55	55	55	56	57	57

**Key:**

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

**Hydrologic Unit Code:** 03040104

**Latitude:** 35.06372

**Longitude:** -80.05283

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 13-20

**Time period:** 01/11/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	<4	5	22.7	93.8	0.4	2.3	3.8	6.2	10.7	13.1	14
pH (SU)	22	0	<5	8	36.4	99.9	0.4	2.3	3.8	6.2	10.7	13.1	14
	22	0	<6	0	0		6	6.2	6.4	6.6	6.8	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	22	0	>9	0	0		6	6.2	6.4	6.6	6.8	7.3	7.4
Water Temperature (°C)	23	0	N/A				60	70	111	128	143	173	202
	23	0	>32	0	0		0.2	3	7.6	11.2	21.8	23.6	24.9
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				19	26	33	42	47	74	78
TSS (mg/L)	18	14	N/A				6.2	6.2	6.2	6.7	12	23.3	53
Turbidity (NTU)	54	0	>50	2	3.7		4.5	5.1	7.1	12	17.2	32	65
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
54	65.7	3	5.6										

**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

**Hydrologic Unit Code:** 03040104

**Latitude:** 35.08600

**Longitude:** -79.99883

**Stream class:** WS-V B

**Agency:** NCAMBNT

**NC stream index:** 13-(15.5)

**Time period:** 01/11/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	19	0	<4	0	0		4.3	4.4	5.3	9.7	12	12.7	12.8
pH (SU)	19	0	<5	4	21.1	88.5	4.3	4.4	5.3	9.7	12	12.7	12.8
	18	0	<6	0	0		6.4	6.4	6.5	6.6	6.8	7	7.5
Spec. conductance (umhos/cm at 25°C)	18	0	>9	0	0		6.4	6.4	6.5	6.6	6.8	7	7.5
	19	0	N/A				77	85	98	119	125	141	151
Water Temperature (°C)	19	0	>32	0	0		4.4	4.7	7.2	12.4	23.1	26.1	27.5
<b>Other</b>													
Hardness (mg/L)	16	0	>100	0	0		24	24	26	30	33	38	39
TSS (mg/L)	16	1	N/A				6.8	7.6	10.4	15	36.8	193.3	530
Turbidity (NTU)	49	0	>50	3	6.1		1.2	6	9.1	15	24	45	130
<b>Nutrients (mg/L)</b>													
NH3 as N	48	15	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.07
NO2 + NO3 as N	48	0	>10	0	0		0.19	0.36	0.57	0.76	0.88	1.31	1.8
TKN as N	47	0	N/A				0.28	0.33	0.38	0.5	0.56	0.67	1.4
Total Phosphorus	48	0	N/A				0.04	0.06	0.08	0.1	0.16	0.21	0.45
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
49	100	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:** 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:** 01/26/2010 to 12/10/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	<4	0	0		5	6.5	7.6	11.2	13.1	14	14.5
pH (SU)	22	0	<5	0	0		5	6.5	7.6	11.2	13.1	14	14.5
	23	0	<6	1	4.3		5.2	6.1	6.6	7	7.3	7.4	7.5
	23	0	>9	0	0		5.2	6.1	6.6	7	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	23	0	N/A				48	52	59	75	82	86	103
Water Temperature (°C)	23	0	>32	0	0		3.1	4.4	6.3	8.9	21.1	23.9	25.1
<b>Other</b>													
Hardness (mg/L)	20	0	N/A				15	17	22	23	25	28	28
TSS (mg/L)	20	17	N/A				6.2	6.2	6.2	6.2	7.4	13.8	34
Turbidity (NTU)	55	0	>50	1	1.8		1.7	3.2	4.3	7.8	13	27.6	90
<b>Nutrients (mg/L)</b>													
NH3 as N	54	34	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	0.03	0.18	0.3	0.39	0.5
TKN as N	54	0	N/A				0.2	0.26	0.34	0.42	0.55	0.71	1.1
Total Phosphorus	54	0	N/A				0.02	0.04	0.05	0.08	0.11	0.14	0.25
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
55	99.4	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

**Hydrologic Unit Code:** 03040104

**Latitude:** 35.10633

**Longitude:** -79.89895

**Stream class:** WS-IV

**Agency:** YPDRBA

**NC stream index:** 13-25-(37.5)

**Time period:** 01/14/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.2	5.6	6.2	6.6	7.9	9.7	11.9
pH (SU)	85	0	<5	2	2.4		4.2	5.6	6.2	6.6	7.9	9.7	11.9
	85	0	<6	0	0		6.4	6.5	6.7	6.8	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.4	6.5	6.7	6.8	7.1	7.2	7.4
Water Temperature (°C)	85	0	N/A				60	85	91	96	130	170	219
	85	0	>32	0	0		1.1	5.5	10.2	19.8	23.6	25.3	27.6
<b>Other</b>													
Turbidity (NTU)	60	0	>50	2	3.3		3.1	5.3	8.2	13.5	22.8	39.9	80
<b>Nutrients (mg/L)</b>													
NH3 as N	17	0	N/A				0.02	0.02	0.04	0.07	0.08	0.09	0.11
NO2 + NO3 as N	17	1	>10	0	0		0.02	0.15	0.22	0.31	0.4	0.56	0.62
TKN as N	17	0	N/A				0.41	0.44	0.58	0.72	1.14	2.08	2.18
Total Phosphorus	17	1	N/A				0.02	0.02	0.05	0.08	0.1	0.1	0.12

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	142.7	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:** TOMS BRANCH AT SR 1310 NR ELLERBE

**Station #:** Q9340000

**Hydrologic Unit Code:** 03040104

**Latitude:** 35.08783

**Longitude:** -79.78942

**Stream class:** C

**Agency:** YPDRBA

**NC stream index:** 13-28-2-4

**Time period:** 01/14/2010 to 12/09/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	84	0	<4	0	0		5.8	6.4	6.6	7	8.5	10	13.6
pH (SU)	84	0	<5	0	0		5.8	6.4	6.6	7	8.5	10	13.6
	84	0	<6	0	0		6.5	6.7	6.8	6.9	7.1	7.2	7.4
	84	0	>9	0	0		6.5	6.7	6.8	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				89	114	122	139	156	172	328
Water Temperature (°C)	84	0	>32	0	0		0.8	5.4	9.8	19.7	23.5	24.6	27
<b>Other</b>													
Turbidity (NTU)	56	0	>50	3	5.4		3.9	5.7	7.4	12.5	19.8	35.3	70

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
56	107.1	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:** 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 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	24	0	<4	0	0		7.2	7.2	7.4	7.7	9.7	10.2	10.4
	24	0	<5	0	0		7.2	7.2	7.4	7.7	9.7	10.2	10.4
pH (SU)	24	0	<6	0	0		6.7	6.8	6.9	7.1	7.2	7.4	7.5
	24	0	>9	0	0		6.7	6.8	6.9	7.1	7.2	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	24	0	N/A				67	72	84	94	137	152	165
Water Temperature (°C)	24	0	>32	0	0		4.3	6	9.3	19.4	22.2	23.4	23.8
<b>Other</b>													
Turbidity (NTU)	17	0	>50	1	5.9		4.4	4.6	6.8	12	22.5	68	160
<b>Nutrients (mg/L)</b>													
NH3 as N	17	3	N/A				0.02	0.02	0.02	0.05	0.06	0.09	0.16
NO2 + NO3 as N	17	0	>10	0	0		0.62	0.66	0.84	1.14	1.49	1.6	1.68
TKN as N	17	0	N/A				0.44	0.46	0.52	0.74	0.9	1.12	1.76
Total Phosphorus	17	2	N/A				0.02	0.02	0.02	0.04	0.05	0.14	0.26

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean:	# > 400:	% > 400:	%Conf:
17	92	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:** 01/11/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	<4	0	0		4.6	5.4	6.8	9.8	12.3	13.5	14.4
pH (SU)	22	0	<5	1	4.5		4.6	5.4	6.8	9.8	12.3	13.5	14.4
	22	0	<6	0	0		6.1	6.4	6.7	7	7.2	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	22	0	>9	0	0		6.1	6.4	6.7	7	7.2	7.4	7.5
	23	0	N/A				75	84	90	94	103	113	120
Water Temperature (°C)	23	0	>32	0	0		3.8	5.4	8.1	13.6	22.4	27.1	29.1
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				23	24	25	27	29	30	30
TSS (mg/L)	19	5	N/A				6.2	6.2	6.2	8.2	12	18	44
Turbidity (NTU)	55	0	>50	1	1.8		3.1	5.5	6.6	8.7	16	26.8	70
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>		<b># &gt; 400:</b>	<b>% &gt; 400: %Conf:</b>									
55	28		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 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:** 01/14/2010 to 12/09/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	85	0	<4	0	0		4.3	6.4	6.7	7.5	9	10.3	12.6
pH (SU)	85	0	<5	1	1.2		4.3	6.4	6.7	7.5	9	10.3	12.6
	85	0	<6	0	0		6.6	6.9	7	7.1	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		6.6	6.9	7	7.1	7.3	7.4	7.5
	85	0	N/A				81	92	98	106	117	130	164
Water Temperature (°C)	85	0	>32	0	0		2	6.3	11.8	21.1	25.2	26.3	28.7
<b>Other</b>													
TSS (mg/L)	60	2	N/A				2.8	4.7	6.4	8.2	10	17.9	41
Turbidity (NTU)	60	0	>50	4	6.7		5.4	6.6	8.2	11	22.8	31.7	100
<b>Nutrients (mg/L)</b>													
NH3 as N	60	0	N/A				0.02	0.04	0.06	0.09	0.13	0.18	0.26
NO2 + NO3 as N	60	0	N/A				0.14	0.28	0.44	0.64	0.84	1.02	1.56
TKN as N	60	2	N/A				0.2	0.36	0.5	0.64	0.82	1.08	2.5
Total Phosphorus	57	4	N/A				0.02	0.03	0.06	0.08	0.1	0.18	0.24
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	67	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:** 01/11/2010 to 12/08/2014

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	22	0	<4	0	0		4.4	6.4	8	10.8	12.8	13.9	16.7
pH (SU)	22	0	<5	1	4.5		4.4	6.4	8	10.8	12.8	13.9	16.7
	22	0	<6	1	4.5		5.9	6.2	6.4	6.6	6.9	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	22	0	>9	0	0		5.9	6.2	6.4	6.6	6.9	7.2	7.4
Water Temperature (°C)	23	0	N/A				36	39	41	45	47	55	59
	23	0	>32	0	0		3.1	4.9	9	11.9	23.1	25.9	29.4
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				5	10	11	13	14	22	25
TSS (mg/L)	19	6	N/A				6.2	6.2	6.2	12	19	31	52
Turbidity (NTU)	56	0	>50	0	0		2.5	3.7	5	6.8	13.6	22.6	50
<b>Nutrients (mg/L)</b>													
NH3 as N	56	12	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.07
NO2 + NO3 as N	56	0	N/A				0.07	0.11	0.14	0.22	0.37	0.42	0.48
TKN as N	56	0	N/A				0.3	0.34	0.37	0.42	0.52	0.67	0.96
Total Phosphorus	56	1	N/A				0.02	0.02	0.02	0.03	0.04	0.07	0.16
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
56	105.1	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:** JONES CRK AT NC 145 NR PEE DEE

**Station #:** Q9777000

**Hydrologic Unit Code:** 03040201

**Latitude:** 34.90432      **Longitude:** -79.93047

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 13-42

**Time period:** 01/11/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	21	0	<4	0	0		5.1	6.4	8.1	11.2	12.4	13.1	14.5
	21	0	<5	0	0		5.1	6.4	8.1	11.2	12.4	13.1	14.5
pH (SU)	21	0	<6	1	4.8		5.7	6.1	6.4	7	7.2	7.3	7.5
	21	0	>9	0	0		5.7	6.1	6.4	7	7.2	7.3	7.5
Spec. conductance (umhos/cm at 25°C)	22	0	N/A				39	44	65	77	85	88	89
Water Temperature (°C)	22	0	>32	0	0		0.7	3.2	8	10.7	21.5	23.8	24.5
<b>Other</b>													
Hardness (mg/L)	18	0	N/A				17	18	20	24	26	29	29
TSS (mg/L)	18	10	N/A				6.2	6.2	6.2	7	12	59.5	136
Turbidity (NTU)	52	0	>50	3	5.8		2.4	2.7	4	6.6	10.7	35.5	160
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>		<b># &gt; 400:</b>	<b>% &gt; 400:</b>		<b>%Conf:</b>							
52	161.8		7	13.5									

**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:** MARKS CRK AT SR 1812 NR HAMLET

**Station #:** Q9940000

**Hydrologic Unit Code:** 03040201

**Latitude:** 34.86257      **Longitude:** -79.71915

**Stream class:** C

**Agency:** NCAMBNT

**NC stream index:** 13-45-(2)

**Time period:** 01/20/2010 to 12/08/2014

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	23	0	<4	1	4.3		3.6	4.3	5	7.6	10.4	11.1	12.1
pH (SU)	23	0	<5	4	17.4	80.7	3.6	4.3	5	7.6	10.4	11.1	12.1
	24	0	<6	9	37.5	>99.9	4.8	5.2	5.8	6	6.3	6.6	6.9
Spec. conductance (umhos/cm at 25°C)	24	0	>9	0	0		4.8	5.2	5.8	6	6.3	6.6	6.9
	24	0	N/A				40	42	43	46	47	58	107
Water Temperature (°C)	24	0	>32	0	0		2.1	7.5	8.8	14.1	23.2	26.9	29.4
<b>Other</b>													
Hardness (mg/L)	19	0	N/A				5	8	9	11	14	18	24
TSS (mg/L)	18	17	N/A				6.2	6.2	6.2	6.2	12	12	12
Turbidity (NTU)	57	1	>50	0	0		1	1.2	1.6	2.2	3.8	6.2	8.9
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean:</b>		<b># &gt; 400:</b>	<b>% &gt; 400:</b>		<b>%Conf:</b>							
56	106.4		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