

**Lower Neuse Basin Association  
P.O. Box 1410  
Clayton, North Carolina 27528-1410**

**Annual Monitoring Report  
2025**

Submitted By: , Chairman  
Charles Smithwick

**Prepared By:** Haywood M. Phthisic, III, Executive Director

## **Lower Neuse Basin Association Contact Information**

### **Officers of the Lower Neuse Basin Association**

**Chairman -**

Charles Smithwick  
Contentnea MSD  
P. O. Box 477  
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252.413.8898  
[cmsd100@embarqmail.com](mailto:cmsd100@embarqmail.com)

**Vice Chairman -**

Jimmy Pridgen  
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Wilson, N. C. 27894  
252.399.2374  
[jpridgen@wilsonnc.org](mailto:jpridgen@wilsonnc.org)

**Treasurer -**

Jonathan Bulla  
Town of Cary  
P.O. Box 8005  
Cary, N.C. 27512 -8005  
[Jonathan.Bulla@carync.gov](mailto:Jonathan.Bulla@carync.gov)

**Secretary -**

Lori Avent  
Town of Apex  
P. O. Box 250  
Apex, N.C. 27502  
[lori.avent@apexnc.org](mailto:lori.avent@apexnc.org)

### **Associates:**

**Executive Director -**

Haywood M. Phthisic, III  
P.O. Box 1410  
Clayton, N.C. 27528-1410  
919.796.8049  
[exec.director@lnba.net](mailto:exec.director@lnba.net)

**Association Counsel -**

James (Jim) Wrenn  
150 Fayetteville Street  
Raleigh, N.C. 27601  
919.821.6645  
[jwrenn@smithlaw.com](mailto:jwrenn@smithlaw.com)

**Coalition Web Site Address - <https://www.lnba.net>**

# **Lower Neuse Basin Association**

**April 28, 2026**

## **Members and Contact Information**

A complete list of LNBA delegates for 2025 follows in Section I.

## **Monitoring Stations for 2025**

A complete list of the monitoring stations with station numbers, descriptions, coordinates, county, sub basin and stream classification included in Section II.

The Agreement between the LNBA and the Division of Water Resources was renewed in 2024. The effective date was August 1, 2024 through July 31, 2029. There were several sampling stations, added, deleted, or moved to a better location for safety reasons or environmental conditions.

## **Quality Assurance/Quality Control Issues**

Waypoint Analytical has a contract with the LNBA to collect and analysis designated sites from Falls Lake Dam to the Neuse River Estuary under the MOA with DWR. Waypoint Analytical reported no quality assurance or quality control issues in 2025.

Waypoint Analytical reported it completed and passed proficiency testing for its satellite lab (field testing equipment) in 2025.

NCDEQ- DWR did not conduct a field review and inspection in 2025.

On April 3, 2007, the Division of Water Quality suspended the collection and analysis of total recoverable metals as required by the monitoring coalitions. The metals are no longer collected as part of the LNBA MOA agreement.

The Waypoint Analytical contact information and sampling methods/protocols are listed in Section III with the sampling errors and omissions for 2025.

## **Special Projects**

The Lower Neuse Basin Association, in cooperation with its sister organization, the Neuse River Compliance Association, has continued with its partnership with Dr. Nathan Hall of the University of North Carolina at Chapel Hill, Institute of Marine Science. The two associations support the MODMON monitoring program of the Neuse River Estuary. The associations began assisting with this research in July 2006.

### **Suggested Changes**

There are no suggested changes at this time.

### **Statistical Analysis of Data**

Statistical analyses of the data for each monitoring station are included in Section IV.

# Section I

LNBA Members and Contact Information

<b>NPDES Permit #</b>	<b>LNBA Permittees Ownership and Facility</b>	<b>Authorized Representative and Title</b>	<b>County</b>	<b>Region</b>	<b>HUC (8 Digit)</b>
NC0003417	Duke Energy Progress, LLC H. F. Lee Energy Complex	Jeffery D. Hines General Manager	Wayne	WaRO	3020201
NC0003760	CovationBio, Inc.	Ray Burgos WWTF Manager	Lenoir	WaRO	3020202
NC0020389	Town of Benson - Benson WWTP	Dane Rideout Town Manager	Johnston	RRO	3020201
NC0021253	City of Havelock - Havelock WWTP	Chris McGee City Manager	Craven	WaRO	3020204
NC0021644	Town of LaGrange - LaGrange WWTP	Shawn Condon Town Manager	Lenoir	WaRO	3020202
NC0023906	City of Wilson - Wilson WWTP	Grant Goings City Manager	Wilson	RRO	3020203
NC0023949	City of Goldsboro - Goldsboro WWTP	Matthew Livingston City Manager	Wayne	WaRO	3020202
NC0024236	City of Kinston - Kinston Regional WWTF	Steve Miller Director of Public Services	Lenoir	WaRO	3020202
NC0025348	City of New Bern - New Bern WWTP	Foster Hughes City Manager	Craven	WaRO	3020204
NC0025453	Town of Clayton - Little Creek WWTP	Rich Cappola Town Manager	Johnston	RRO	3020201
NC0029033	City of Raleigh - Neuse River WWTP	Scott Smart Assistant Utility Director	Wake	RRO	3020201
NC0029572	Town of Farmville - Farmville WWTP	Justin Oakes Town Manager	Pitt	WaRO	3020203
NC0030716	Johnston County Central Johnston County Regional WWTP	Rick J. Hester County Manager	Johnston	RRO	3020201
NC0030759	City of Raleigh - Smith Creek WWTP	Scott Smart Assistant Utility Director	Wake	RRO	3020201
NC0032077	Contentnea Metropolitan Sewerage District Contentnea MSD WWTP	Charles M. Smithwick, Jr. District Manager	Pitt	WaRO	3020203
NC0048879	Town of Cary - North WWTP	Jonathan Bulla North Cary WRF Manager	Wake	RRO	3020201
NC0064050	Town of Apex - Apex WRF	Randal E. Vosburg Town Manager	Wake	RRO	3020201
NC0064891	Town of Kenly - Kenly Regional WWTP	Tony Sears Interim Town Manager	Johnston	RRO	3020201
NC0065102	Town of Cary - South WWTP	Jarrod Buchanan South Cary WRF Manager	Wake	RRO	3020201
NC0066516	Town of Fuquay Varina Terrible Creek WWTP	Michael Wagner Utility Director	Wake	RRO	3020201
NC0020842	Town of Snow Hill Snow Hill WWTF	April Vinson Town Manager	Greene	WaRO	3020203
NC0079316	City of Raleigh - Little Creek WWTP	Scott Smart Assistant Utility Director	Wake	RRO	3020203
NC0084735	Johnston County Johnston County WTP	Rick J. Hester County Manager	Johnston	RRO	3020201

# Section II

## Monitoring Station Information

## *List Of Monitoring Stations*

<i>Station</i>	<i>Location</i>	<i>County</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Class</i>	<i>Sub-Basin</i>
J2230000	Smith Creek @ SR 2045 (Burlington Mill Road) near Wake Forest	Wake	35.9182	-78.5348	C NSW	03020201
J2330000	Neuse River at SR 2215 (Buffalo Road) near Neuse	Wake	35.8479	-78.5302	C NSW	03020201
J3310000	Crabtree Creek @ 2921 North Raleigh Blvd, Raleigh	Wake	35.8041	-78.6081	C NSW	03020201
J3970000	Walnut Creek at SR 2551 (Barwell Road) near Raleigh	Wake	35.7493	-78.5345	C NSW	03020201
J4050000	Neuse River @ SR 2555 (Auburn Knightdale Road) near Raleigh	Wake	35.7266	-78.5139	C NSW	03020201
J4080000	Poplar Creek @ SR 2049 (Bethlehem Road) near Knightdale	Wake	35.7309	-78.4776	C NSW	03020201
J4115000	Marks Creek @ Neuse River Trail near Archers Lodge	Johnston	35.693264	-78.438694	C NSW	03020201
J4130000	Neuse River @ SR 1700 (Covered Bridge Road) near Archer's Lodge	Johnston	35.6749	-78.4364	WS-V NSW	03020201
J4170000	Neuse River @ at NC 42E of Clayton	Johnston	35.6473	-78.4056	WS-IV NSW	03020201
J4370000	Neuse River at US 70 Business @ Smithfield	Johnston	35.5128	-78.3498	WS-IV NSW	03020201
J4414000	Swift Creek @ SR 1152 (Holly Springs Road) near Macedonia	Wake	35.7187	-78.7527	WS-III NSW	03020201
J4500000	Swift Creek @ Indian Creek former discharge location near Garner, N.C.	Wake	35.6476	-78.6041	C NSW	03020201
J4510500	Swift Creek at SR 1525, Cornwallis Road near Clayton	Johnston	35.5999	-78.5356	C NSW	03020201
J4511000	White Oak Creek @ N.C. 42 Hwy near Clayton, N.C.	Johnston	35.6176	-78.5281	C NSW	03020201
J4520000	Swift Creek @ SR 1562 (Steel Bridge Road) near Smithfield, N.C.	Johnston	35.5515	-78.46	C NSW	03020201
J4580000	Swift Creek @ SR 1501 (Swift Creek Road) near the Johnston County Airport	Johnston	35.5442	-78.397	C NSW	03020201
J4670000	Middle Creek off of Anchor Creek Way at Holly Springs Greenway Bridge in	Wake	35.671389	-78.823333	NSW	03020201
J4690000	Middle Creek @ SR 1152 (Holly Springs Road) near Holly Springs	Wake	35.6609	-78.8042	C NSW	03020201
J4868000	Middle Creek @ SR 1375 (Lake Wheeler Road) near Banks	Wake	35.6356	-78.7279	C NSW	03020201

<i>Station</i>	<i>Location</i>	<i>County</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Class</i>	<i>Sub-Basin</i>
J4980000	Middle Creek @ SR 1006 (Old Stage Road) near Willow Springs	Wake	35.6091	-78.6866	C NSW	03020201
J5002000	Middle Creek @ SR 1517 (Old Sanders Hse) near Edmonson	Johnston	35.5626	-78.5756	C NSW	03020201
J5007000	Middle Creek at SR 1504, Crantock Road in Johnston County	Johnston	35.52233	-78.46694	NSW	03020201
J5010000	Middle Creek @ NC 210 near Smithfield	Johnston	35.5075	-78.4013	C NSW	03020201
J5170000	Black Creek @ SR 1162 (Black Creek Road) near Four Oaks	Johnston	35.46925	-78.45681	C NSW	03020201
J5250000	Neuse River @ SR 1201 (Richardson Bridge Road) near Cox Mill	Johnston	35.3741	-78.1962	WS-IV NSW	03020201
J5390000	Hannah Creek @ SR 1158 (Allens Crossroads Drive) near Benson	Johnston	35.3868	-78.511	C NSW	03020201
J5390800	Hannah Creek @ SR 1227 (Ivey Road) near Benson	Johnston	35.4025	-78.4952	C NSW	03020201
J5410000	Mill Creek @ SR 1200 (Richardson Bridge Road) near Cox Mill	Johnston	35.342	-78.2162	C NSW	03020201
J5500000	Falling Creek @ SR 1219 (Old Grantham Road) near Grantham	Wayne	35.3224	-78.1282	WS-IV NSW	03020201
J5630000	Little River @ SR 2320, Riley Road near Zebulon	Wake	35.8375	-78.3599	HQW NSW	03020201
J5685000	Little River at Weaver Road near Bagley	Johnston	35.5791	-78.1723	WS-V NSW	03020201
J5750000	Little River at SR 2339 (Bagley Road) near Lowell Mill	Johnston	35.5613	-78.1594	WS-V NSW	03020201
J5790000	Buffalo Creek @ SR 2358 (Lake Glad Road) near Webdell, N.C.	Wake	35.7697	-78.7697	C NSW	03020201
J5930000	Little River @ US 581 near Cherry Hospital	Wayne	35.393	-78.0258	C NSW	03020201
J6010950	Walnut Creek @ SR 1730 (Saint Johns Church Road) near Walnut Creek	Wayne	35.2817	-77.8686	C NSW	03020202
J6024000	Neuse River @ SR 1731 (Piney Grove Road) near Seven Springs	Wayne	35.229	-77.846	C NSW	03020202
J6044400	Bear Creek at SR 1603, Washington Street near LaGrange	Lenoir	35.3137	-77.8153	C Sw NSW	03020202
J6044500	Bear Creek @ SR 1311 (Bear Creek Road) near Kinston	Lenoir	35.2489	-77.7843	WS-IV Sw NSW	03020202
J6055000	Mosley Creek @ SR 1327 (Willey Measley Road) near LaGrange	Lenoir	35.3119	-77.7313	C Sw NSW	03020202
J6150000	Neuse River @ NC 11 Bypass at Kinston	Lenoir	35.2587	-77.5835	C NSW	03020202

<i>Station</i>	<i>Location</i>	<i>County</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Class</i>	<i>Sub-Basin</i>
J6250000	Neuse River @ NC 55 near Graingers	Lenoir	35.2957	-77.4962	C NSW	03020202
J6410000	Little Creek @ NC 97 near Zebulon	Wake	35.8279	-78.3025	C NSW	03020203
J6450000	Little Creek @ NC 39 near Zebulon	Wake	35.8125	-78.2681	C NSW	03020203
J6500000	Moccasin Creek @ SR 1131 (Antioch Church Road) near Conner	Wilson	35.7301	-78.1895	C NSW	03020203
J6680000	Turkey Creek @ SR 1101 (Claude Lewis Rodd) near Middlesex	Nash	35.7519	-78.1597	C NSW	03020203
J6765000	Contentnea Creek at Willow Springs drive near Dixie	Wilson	35.6838	-77.941	C Sw NSW	03020203
J6890000	Contentnea Creek @ SR 1622 (Evansdale Road) near Wilson	Wilson	35.6429	-77.8902	C Sw NSW	03020203
J7210000	Contentnea Creek @ NC 58 near Stantonsburg	Wilson	35.5861	-77.8111	C Sw NSW	03020203
J7240000	Toisnot Swamp @ SR 1539 (Sand Pit Road) near Stantonsburg	Wilson	35.5976	-77.7947	C Sw NSW	03020203
J7325000	Nahunta Swamp @ NC 58 near Contentnea	Greene	35.5081	-77.7455	C Sw NSW	03020203
J7330000	Contentnea Creek @ US 13 near Snow Hill	Greene	35.4585	-77.6753	C Sw NSW	03020203
J7690000	Little Contentnea Creek @ SR 1218 (Chinquapin Road) near Farmville	Pitt	35.5881	-77.5416	C Sw NSW	03020203
J7740000	Little Contentnea Creek @ SR 1110 (HWY 903) near Scuffleton	Pitt	35.4567	-77.4854	C Sw NSW	03020203
J7850000	Neuse River @ SR 1470 (Maple Cypress Road) at the boat ramp dock upstre	Craven	35.31368	-77.30287	C Sw NSW	03020202
J8870000	Trent River @ the Alfred Cunningham Drawbridge on E. Front Street, New Be	Craven	35.10159	-77.03708	SB Sw NSW	03020204

## Section III

Contract Laboratory Information,  
Audits, MOA Revisions, and Sample  
Errors and Omissions

## Contract Laboratory Providing All Sampling and Analysis

### Waypoint Analytical, Inc.

Ron Boquist, General Manger

114 Oakmont Dr.

Greenville, N.C. 27835-7085

252.756.6208

[rboquist@waypointanalytical.com](mailto:rboquist@waypointanalytical.com)

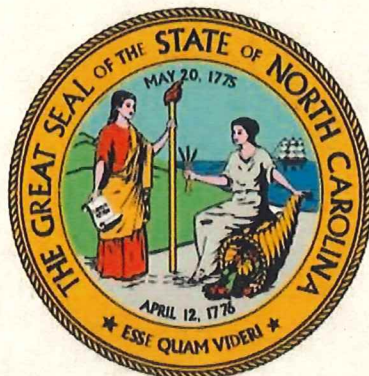
### Waypoint Analytical - River Basin Method Codes 2025

Parameter	EPA / SM code	Rev./ date
Chlorophyll_a (ug/l)	EPA 445.0	Rev. 1.2 - 1997
Conductivity (umhos/cm)	SM 2510 B	2021
DO (mg/l)	SM 4500 OG	2021
Fecal Coliform	SM 9222 D	2015
Hardness, Total	SM 2340 C	2021
NH3_N (mg/l)	EPA 350.1	Rev. 2.0 - 1993
NO2_NO3_N (mg/l)	EPA 353.2	Rev. 2.0 - 1993
pH (su)	SM 4500 HB	2021
Suspended Residue, (mg/l)	SM 2540 D	2020
Temp (° C)	SM 2550B	2010
TKN_N (mg/l)	EPA 351.2	Rev. 2.0 - 1993
TP (mg/l)	EPA 365.4	Rev. 2.0 - 1974
Turbidity (NTU)	SM 2130 B	2020

STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY

# DIVISION OF WATER RESOURCES LABORATORY CERTIFICATION BRANCH

*In accordance with the provisions of N.C.G.S. 143-215.3 (a) (1), 143-215.3 (a)(10) and NCAC 2H.0800:*



# 2025

## Waypoint Analytical - Greenville

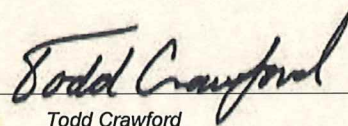
*Is hereby certified to perform environmental analysis as listed on the Laboratory's Certified Parameter List and report monitoring data to DEQ for compliance with NPDES effluent, surface water, groundwater, soil and pretreatment regulations.*

*By reference 15A NCAC 2H .0800 is made a part of this certificate.*

*This certificate does not guarantee validity of data generated, but indicates the methodology, equipment, quality control procedures, records, and proficiency of the laboratory have been examined and found to be acceptable.*

12/31/2025

Certificate No. 10

  
Todd Crawford

## North Carolina Wastewater/Groundwater Laboratory Certification

### Certified Parameters Listing

Lab Name: Waypoint Analytical - Greenville  
 Address: 114 Oakmont Dr.  
 Greenville, NC 27858

Certificate Number: 10  
 Effective Date: 1/1/2025  
 Expiration Date: 12/31/2025  
 Date of Last Amendment: 10/25/2024

The above named laboratory, having duly met the requirements of 15A NCAC 2H.0800, is hereby certified for the measurement of the parameters listed below.

#### CERTIFIED PARAMETERS

#### INORGANIC

##### ALKALINITY

SM 2320 B-2021 (Aqueous)

##### BACTERIA - COLIFORM FECAL

SM 9221 E-2014 (MPN) (Aqueous)

SM 9221 E-2014 (MPN) (Biosolids)

SM 9222 D-2015 (MF) (Aqueous)

##### BACTERIA - COLIFORM TOTAL

SM 9222 B-2015 (MF) (Aqueous)

SM 9221 B-2014 (MPN) (Aqueous)

##### BACTERIA - E. coli

IDEXX Colilert-18® (MPN) (Aqueous)

##### BACTERIA - ENTEROCOCCI

IDEXX Enterolert® (MPN) (Aqueous)

##### BOD

SM 5210 B-2016 (Aqueous)

##### CBOD

SM 5210 B-2016 (Aqueous)

##### CHLORIDE

SM 4500-Cl<sup>-</sup> B-2021 (Aqueous)

##### CHLOROPHYLL a

EPA 445.0, Rev. 1.2 (Fluorometric) (Aqueous)

##### COD

Hach 8000 (Aqueous)

##### COLOR, ADMI

SM 2120 F-2021 (ADMI) (Aqueous)

##### COLOR, PC

SM 2120 B-2021 (PCo) (Aqueous)

##### CONDUCTIVITY

SM 2510 B-2021 (Aqueous)

##### CYANIDE

SM 4500-CN<sup>-</sup> E-2021 (Total) (Aqueous)

SM 4500-CN<sup>-</sup> E-2021 (Total) (Non-Aqueous)

##### DISSOLVED OXYGEN

SM 4500-O G-2021 (Aqueous)

##### FLUORIDE

SM 4500-F<sup>-</sup> C-2021 (Aqueous)

##### HARDNESS TOTAL - WET CHEM

SM 2340 C-2021 (Aqueous)

##### NITROGEN, AMMONIA

EPA 350.1, Rev. 2.0, 1993 (Aqueous)

##### NITROGEN, NITRATE

(NO<sub>3</sub> + NO<sub>2</sub> EPA 353.2, Rev. 2.0, 1993) - (NO<sub>2</sub> EPA 353.2, Rev. 2.0, 1993) (Aqueous)

##### NITROGEN, NITRITE

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

##### NITROGEN, NO<sub>3</sub> + NO<sub>2</sub>

EPA 353.2, Rev. 2.0, 1993 (Aqueous)

##### NITROGEN, TOTAL KJELDAHL

EPA 351.2, Rev. 2.0, 1993 (Aqueous)

##### OIL & GREASE

EPA 1664 Rev. B (Aqueous)

##### ORGANIC CARBON, TOTAL

SM 5310 C-2014 (Aqueous)

##### pH

SM 4500-H+B-2021 (Aqueous)

##### PHOSPHATE, ORTHO

SM 4500-P E-2021 (Aqueous)

##### PHOSPHORUS, TOTAL

EPA 365.4, 1974 (Aqueous)

##### RESIDUE, DISSOLVED 180 C

SM 2540 C-2020 (Aqueous)

ASTM D5907-18 B (Aqueous)

##### RESIDUE, SETTLEABLE

SM 2540 F-2020 (Aqueous)

##### RESIDUE, SUSPENDED

SM 2540 D-2020 (Aqueous)

##### RESIDUE, TOTAL

SM 2540 B-2020 (Aqueous)

This certification requires maintenance of an acceptable quality assurance program, use of approved methodology, and satisfactory performance on evaluation samples. Laboratories are subject to civil penalties and/or decertification for infractions as set forth in 15A NCAC 2H.0807.

# North Carolina Wastewater/Groundwater Laboratory Certification

## Certified Parameters Listing

Lab Name: Waypoint Analytical - Greenville  
Address: 114 Oakmont Dr.  
Greenville, NC 27858

Certificate Number: 10  
Effective Date: 1/1/2025  
Expiration Date: 12/31/2025  
Date of Last Amendment: 10/25/2024

The above named laboratory, having duly met the requirements of 15A NCAC 2H.0800, is hereby certified for the measurement of the parameters listed below.

### CERTIFIED PARAMETERS

SM 2540 G-2020 (Non-Aqueous)  
SALINITY  
SM 2520 B-2021 (Aqueous)  
SULFATE  
SM 4500-SO<sub>4</sub><sup>2-</sup> E-2021 (Aqueous)  
SULFIDE  
SM 4500-S<sup>2-</sup> D-2021 (Aqueous)  
TEMPERATURE  
SM 2550 B-2010 (Aqueous)  
TURBIDITY  
SM 2130 B-2020 (Aqueous)  
**METAL**  
ALUMINUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
ANTIMONY  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
ARSENIC  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
BARIUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
BERYLLIUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
CADMIUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
CALCIUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
CHROMIUM TOTAL  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
COBALT  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
COPPER  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
IRON  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
LEAD  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
MAGNESIUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
MANGANESE  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
MERCURY  
EPA 245.1, Rev. 3.0, 1994 (Aqueous)  
SW-846 7471 B (Non-Aqueous)  
EPA 1631 E (Aqueous)  
MOLYBDENUM  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
NICKEL

**North Carolina Wastewater/Groundwater Laboratory Certification**  
**Certified Parameters Listing**

Lab Name: Waypoint Analytical - Greenville  
Address: 114 Oakmont Dr.  
Greenville, NC 27858

Certificate Number: 10  
Effective Date: 1/1/2025  
Expiration Date: 12/31/2025  
Date of Last Amendment: 10/25/2024

The above named laboratory, having duly met the requirements of 15A NCAC 2H.0800, is hereby certified for the measurement of the parameters listed below.

**CERTIFIED PARAMETERS**

EPA 200.7, Rev. 4.4, 1994 (Aqueous) SW-846 8260 D (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**POTASSIUM**  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**SELENIUM**  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**SILVER**  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**SODIUM**  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**THALLIUM**  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**TIN**  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**VANADIUM**  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**ZINC**  
EPA 200.7, Rev. 4.4, 1994 (Aqueous)  
EPA 200.7, Rev. 4.4, 1994 (Non-Aqueous)  
EPA 200.8, Rev. 5.4, 1994 (Aqueous)  
**ORGANIC**  
**BASE NEUTRAL/ACID, ORGANICS**  
EPA 625.1, Dec 2016 (Aqueous)  
**PURGEABLE, ORGANICS**  
EPA 624.1, Dec 2016 (Aqueous)

This certification requires maintenance of an acceptable quality assurance program, use of approved methodology, and satisfactory performance on evaluation samples. Laboratories are subject to civil penalties and/or decertification for infractions as set forth in 15A NCAC 2H.0807.

Amendment # 1  
DWR LNBA MOA 2024 - 2029

**Amendment to the Memorandum of Agreement  
Between the North Carolina Division of Water Resources  
and the Lower Neuse Basin Association**

WHEREAS, the NORTH CAROLINA DIVISION OF WATER RESOURCES (DWR), the LOWER NEUSE BASIN ASSOCIATION (LNBA), and NPDES PERMITTEES have entered into a MEMORANDUM OF AGREEMENT (MOA) dated August 1, 2024; and

WHEREAS, the MOA allows modification to add new monitoring stations to the MOA by written consent of the DWR and the LNBA;

NOW THEREFORE, the MOA is hereby amended as follows:

The LNBA and its agents shall perform the collection and analyses of instream water quality monitoring data at station J5007000, Middle Creek at SR 1504 Crantock Rd in Johnston County in lieu of J5010000 until the bridge is replaced and sampling can resume there, for the parameters, locations and frequencies specified in Table 2 of the MOA.

IN WITNESS WHEREOF, the parties have caused the execution of this instrument by authority duly given, to be effective as of the date executed by DWR.

LOWER NEUSE BASIN ASSOCIATION

NORTH CAROLINA DIVISION OF  
WATER RESOURCES

By: Signed by:  
*Charles Smithwick*  
\_\_\_\_\_  
D649FCFD5698450  
Charles Smithwick  
Chairman  
Lower Neuse Basin Association

By: DocuSigned by:  
*Richard E. Rogers, Jr.*  
\_\_\_\_\_  
B2B16A942A64B6  
Richard E. Rogers, Jr.  
Director  
North Carolina Division of Water  
Resources

Date: 1/21/2025

Date: 1/20/2025

Amendment # 2  
DWR LNBA MOA 2024 - 2029

**Amendment to the Memorandum of Agreement  
Between the North Carolina Division of Water Resources  
and the Lower Neuse Basin Association**

WHEREAS, the NORTH CAROLINA DIVISION OF WATER RESOURCES (DWR), the LOWER NEUSE BASIN ASSOCIATION (LNBA), and NPDES PERMITTEES have entered into a MEMORANDUM OF AGREEMENT (MOA) dated August 1, 2024; and

WHEREAS, the MOA allows modification to add new monitoring stations to the MOA by written consent of the DWR and the LNBA;

NOW THEREFORE, the MOA is hereby amended as follows:

The LNBA and its agents shall perform the collection and analyses of instream water quality monitoring data at station J4670000 (replacing J4690000), Middle Creek off Anchor Creek Way at Holly Springs Greenway Bridge in Wake County, for the parameters, locations and frequencies specified in Table 2 of the MOA.

IN WITNESS WHEREOF, the parties have caused the execution of this instrument by authority duly given, to be effective as of the date executed by DWR.

LOWER NEUSE BASIN ASSOCIATION

NORTH CAROLINA DIVISION OF  
WATER RESOURCES

By: Signed by:  
*Charles Smithwick*  
\_\_\_\_\_  
Charles Smithwick  
Chairman  
Lower Neuse Basin Association

By: Signed by:  
*Richard E Rogers, Jr.*  
\_\_\_\_\_  
Richard E. Rogers, Jr.  
Director  
North Carolina Division of Water  
Resources

Date: 2/10/2025

Date: 3/3/2025

# LNBA Sample Errors/Omissions for 2025

Date: 4/24/2025

## January, 2025

J4690000 1/13/2025 Unable to access - Bridge construction

## February, 2025

J4690000 2/3/2025 Unable to access - Bridge construction

J5500000 2/18/2025 Laboratory sample error, resampled 2/28/2025

## March, 2025

J4670000 3/6/2025 Initial sampling for station replacing J4690000, sample collected.

## April, 2025

J4670000 4/9/2025 Initial sampling of this station replacing J4690000

## June, 2025

J8870000 6/11/2025 Secchi Depth not recorded

## September, 2025

J2230000 9/16/2025 Parameters only, low stream flow

J6250000 9/15/20254 Unable to access - Road construction

## October, 2025

J2230000 10/15/2025 Parameters only, low stream flow

J6250000 10/15/2024 Unable to access - Bridge construction

## December, 2025

J3970000 12/9/2025 Unable to access - Road construction

## Section IV

# Statistical Analysis of Sampling Data

## 2025 LNBA Monitoring Report

**Station J2230000**

Smith Creek @ SR 2045 (Burlington Mill Road) near Wake Forest **Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.9182

**Longitude:** -78.5348

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	5.6	27.5	17.9
<i>DO (mg/l)</i>	17	N/A	4	0	6.4	13.4	9.1
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.8	7.8	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	84	136	115
<i>** Fecal Coliform (/100 mls)</i>	10	N/A	400	7	102	4,500	770
<i>Suspended Residue (mg/l)</i>	10	0	N/A	N/A	3.1	24.4	11.2
<i>Turbidity (NTU)</i>	10	N/A	50	0	3.5	25.0	10.3
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	10	1	N/A	N/A	0.02	0.47	0.11
<i>TKN_N (mg/l)</i>	10	2	N/A	N/A	0.20	1.43	0.76
<i>NO2_NO3_N (mg/l)</i>	10	0	N/A	N/A	0.34	3.55	0.91
<i>TP (mg/l)</i>	10	1	N/A	N/A	0.02	3.86	0.48
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J2330000**

Neuse River at SR 2215 (Buffalo Road) near Neuse

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.8479

**Longitude:** -78.5302

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	5.8	31.6	19.7
<i>DO (mg/l)</i>	17	N/A	4	0	5.8	14.3	8.5
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.9	7.7	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	78	128	97
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	3	18	800	129
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	25.0	10.7
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.3	25.0	10.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.19	0.07
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	3.59	0.98
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.05	0.45	0.25
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	3.94	0.41
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J3310000**

Crabtree Creek @ 2921 North Raleigh Blvd, Raleigh

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.8041

**Longitude:** -78.6081

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.2	29.4	19.3
<i>DO (mg/l)</i>	17	N/A	4	0	6.4	14.4	8.5
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	7.0	7.5	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	57	256	172
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	5	86	1,600	392
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	2.5	290.0	31.2
<i>Turbidity (NTU)</i>	12	N/A	50	1	4.4	160.0	21.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.22	0.06
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.53	0.90
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.26	0.62	0.44
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.04	0.38	0.15
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J3970000**

Walnut Creek at SR 2551 (Barwell Road) near Raleigh

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.7493

**Longitude:** -78.5345

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	16	N/A	N/A	N/A	4.0	28.4	19.2
<i>DO (mg/l)</i>	16	N/A	4	0	5.9	14.7	8.5
<i>*** pH (SU)</i>	16	N/A	6 to 9	1	6.7	7.5	N/A
<i>Conductivity (umhos/cm)</i>	16	0	N/A	N/A	51	256	133
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	5	50	4,600	423
<i>Suspended Residue (mg/l)</i>	12	3	N/A	N/A	2.5	32.5	10.1
<i>Turbidity (NTU)</i>	11	N/A	50	1	5.8	60.0	18.0
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	11	7	N/A	N/A	0.02	0.36	0.06
<i>TKN_N (mg/l)</i>	11	3	N/A	N/A	0.20	1.46	0.51
<i>NO2_NO3_N (mg/l)</i>	11	0	N/A	N/A	0.15	1.34	0.39
<i>TP (mg/l)</i>	11	2	N/A	N/A	0.02	0.26	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4050000**

Neuse River @ SR 2555 (Auburn Knightdale Road) near Raleigh **Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.7266

**Longitude:** -78.5139

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.2	30.0	19.1
<i>DO (mg/l)</i>	17	N/A	4	0	4.4	14.1	8.1
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.8	7.5	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	70	159	114
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	3	48	3,700	244
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	2.9	45.6	14.3
<i>Turbidity (NTU)</i>	12	N/A	50	1	5.9	55.0	15.2
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.17	0.05
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.30	1.49	0.82
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.13	0.43	0.26
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	0.32	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4080000**

Poplar Creek @ SR 2049 (Bethlehem Road) near Knightdale

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.7309

**Longitude:** -78.4776

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.8	25.1	17.1
<i>DO (mg/l)</i>	17	N/A	4	0	7.0	13.6	8.9
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.6	7.4	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	60	226	147
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	4	60	1,000	294
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	140.0	18.4
<i>Turbidity (NTU)</i>	12	N/A	50	1	3.8	140.0	20.0
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.34	0.07
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	1.78	0.75
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.48	4.34	1.78
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.17	0.86	0.46
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4115000**

Marks Creek @ Neuse River Trail near Archers Lodge

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.693264 **Longitude:** -78.43869

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.5	26.9	17.9
<i>DO (mg/l)</i>	17	N/A	4	0	5.7	14.0	8.7
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.7	7.5	N/A
<i>Conductivity (umhos/cm)</i>	17	1	N/A	N/A	50	95	84
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	7	136	1,500	496
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	82.0	18.0
<i>Turbidity (NTU)</i>	12	N/A	50	1	4.0	120.0	19.8
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.19	0.05
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	1.21	0.68
<i>NO2_NO3_N (mg/l)</i>	12	1	N/A	N/A	0.02	0.42	0.21
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.02	0.32	0.12
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4130000**

Neuse River @ SR 1700 (Covered Bridge Road) near Archer's Lodge

**Stream Class:** WS-V NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.6749

**Longitude:** -78.4364

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.9	28.2	19.4
<i>DO (mg/l)</i>	17	N/A	4	0	6.0	13.0	8.0
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.8	7.4	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	62	242	180
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	3	56	4,000	251
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	57.5	25.8
<i>Turbidity (NTU)</i>	12	N/A	50	2	2.8	80.0	23.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.16	0.06
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.02	0.89
<i>NO2_NO3_N (mg/l)</i>	12	0	10	0	0.19	0.79	0.52
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.10	0.53	0.28
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4170000**

Neuse River @ at NC 42E of Clayton

**Stream Class:** WS-IV NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.6473

**Longitude:** -78.4056

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	5.0	28.8	19.4
<i>DO (mg/l)</i>	17	N/A	4	0	5.6	13.1	7.9
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.3	7.4	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	74	243	176
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	3	50	4,700	276
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	140.0	39.8
<i>Turbidity (NTU)</i>	12	N/A	50	2	2.5	140.0	29.0
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	3	N/A	N/A	0.02	0.15	0.06
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.99	1.07
<i>NO2_NO3_N (mg/l)</i>	12	0	10	0	0.10	0.84	0.55
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.11	4.87	0.64
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4370000**

Neuse River at US 70 Business @ Smithfield

**Stream Class:** WS-IV NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5128

**Longitude:** -78.3498

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.7	30.8	19.3
<i>DO (mg/l)</i>	17	N/A	4	1	3.3	13.5	8.0
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.3	7.7	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	60	274	173
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	52	3,400	175
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	2.6	58.3	18.3
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.4	31.0	14.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	2	N/A	N/A	0.02	0.28	0.10
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.63	1.40	0.96
<i>NO2_NO3_N (mg/l)</i>	12	0	10	0	0.11	0.96	0.42
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.09	0.39	0.20
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4414000**

Swift Creek @ SR 1152 (Holly Springs Road) near Macedonia

**Stream Class:** WS-III NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.7187

**Longitude:** -78.7527

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.8	26.7	17.4
<i>DO (mg/l)</i>	17	N/A	4	0	4.5	12.9	7.9
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.5	8.0	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	61	205	126
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	5	96	3,900	371
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.2	45.3	13.0
<i>Turbidity (NTU)</i>	12	N/A	50	0	5.7	32.0	12.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.30	0.07
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	1.56	0.91
<i>NO2_NO3_N (mg/l)</i>	12	2	10	0	0.02	0.22	0.10
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.37	0.14
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4500000**

Swift Creek @ Indian Creek former discharge location near  
Gamer, N.C.

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.6476

**Longitude:** -78.6041

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.6	28.1	18.7
<i>DO (mg/l)</i>	17	N/A	4	1	3.6	11.1	7.3
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.6	7.6	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	72	213	97
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	4	26	1,000	171
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	2.6	460.0	54.5
<i>Turbidity (NTU)</i>	12	N/A	50	0	7.3	45.0	18.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.44	0.08
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.51	0.85
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.05	0.23	0.14
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	0.58	0.13
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4510500**

Swift Creek at SR 1525, Cornwallis Road near Clayton

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5999

**Longitude:** -78.5356

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.6	27.9	18.2
<i>DO (mg/l)</i>	17	N/A	4	0	5.4	11.4	8.1
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.4	8.5	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	66	107	93
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	4	62	2,200	256
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.0	59.6	11.7
<i>Turbidity (NTU)</i>	12	N/A	50	1	5.6	70.0	16.7
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.19	0.06
<i>TKN_N (mg/l)</i>	12	2	N/A	N/A	0.20	1.21	0.67
<i>NO2_NO3_N (mg/l)</i>	12	2	N/A	N/A	0.02	0.26	0.13
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	0.41	0.12
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4511000**

White Oak Creek @ N.C. 42 Hwy near Clayton, N.C.

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.6176

**Longitude:** -78.5281

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.1	31.2	20.6
<i>DO (mg/l)</i>	17	N/A	4	0	4.4	11.1	7.3
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.7	7.7	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	54	89	71
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	3	2,000	56
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	4.3	73.5	13.4
<i>Turbidity (NTU)</i>	12	N/A	50	1	3.3	130.0	19.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	8	N/A	N/A	0.02	0.19	0.05
<i>TKN_N (mg/l)</i>	12	2	N/A	N/A	0.20	1.84	0.88
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.03	0.27	0.08
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.24	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4520000**

Swift Creek @ SR 1562 (Steel Bridge Road) near Smithfield, N.C. **Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5515

**Longitude:** -78.46

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.7	28.0	18.3
<i>DO (mg/l)</i>	17	N/A	4	0	6.2	11.6	8.4
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.2	7.6	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	69	117	94
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	3	31	2,400	180
<i>Suspended Residue (mg/l)</i>	12	3	N/A	N/A	2.5	110.0	13.6
<i>Turbidity (NTU)</i>	12	N/A	50	1	3.9	160.0	20.3
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.19	0.05
<i>TKN_N (mg/l)</i>	12	2	N/A	N/A	0.20	1.35	0.71
<i>NO2_NO3_N (mg/l)</i>	12	1	N/A	N/A	0.02	0.36	0.19
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.30	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4580000**

Swift Creek @ SR 1501 (Swift Creek Road) near the Johnston County Airport

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5442

**Longitude:** -78.397

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	1.3	28.3	17.8
<i>DO (mg/l)</i>	17	N/A	4	0	5.6	14.1	8.9
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.4	7.4	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	65	107	89
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	46	1,900	143
<i>Suspended Residue (mg/l)</i>	12	3	N/A	N/A	2.5	170.0	23.9
<i>Turbidity (NTU)</i>	12	N/A	50	0	2.8	38.0	13.4
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.42	0.07
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	12.31	1.77
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.10	1.01	0.28
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.05	0.34	0.13
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J4670000**

Middle Creek off of Anchor Creek Way at Holly Springs  
Greenway Bridge in Wake County.

**Stream Class:** NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.671389 **Longitude:** -78.82333

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	15	N/A	N/A	N/A	9.1	26.6	19.2
<i>DO (mg/l)</i>	15	N/A	4	0	6.0	10.2	7.9
<i>*** pH (SU)</i>	15	N/A	6 to 9	0	6.4	7.5	N/A
<i>Conductivity (umhos/cm)</i>	15	0	N/A	N/A	145	485	306
<i>** Fecal Coliform (/100 mls)</i>	8	N/A	400	4	177	580	373
<i>Suspended Residue (mg/l)</i>	10	1	N/A	N/A	2.5	170.0	31.2
<i>Turbidity (NTU)</i>	10	N/A	50	3	3.4	110.0	36.2
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	10	2	N/A	N/A	0.02	1.27	0.21
<i>TKN_N (mg/l)</i>	10	1	N/A	N/A	0.20	1.69	1.12
<i>NO2_NO3_N (mg/l)</i>	10	0	N/A	N/A	0.51	1.97	1.31
<i>TP (mg/l)</i>	10	1	N/A	N/A	0.02	2.66	1.01
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4868000**

Middle Creek @ SR 1375 (Lake Wheeler Road) near Banks

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.6356

**Longitude:** -78.7279

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	5.4	29.0	19.1
<i>DO (mg/l)</i>	17	N/A	4	0	5.7	11.0	7.8
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.8	7.8	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	127	370	238
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	3	72	2,040	300
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	4.9	39.0	15.8
<i>Turbidity (NTU)</i>	12	N/A	50	0	5.0	37.0	13.3
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	4	N/A	N/A	0.02	0.49	0.08
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.34	0.99
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.34	1.20	0.80
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.06	0.54	0.23
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J4980000**

Middle Creek @ SR 1006 (Old Stage Road) near Willow Springs **Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.6091

**Longitude:** -78.6866

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	5.2	28.6	18.6
<i>DO (mg/l)</i>	17	N/A	4	0	6.1	10.8	8.4
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.9	7.5	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	122	355	227
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	4	72	2,600	338
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.3	110.0	28.5
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.9	50.0	17.7
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.24	0.05
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	3.53	1.23
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.39	1.64	0.96
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.06	0.51	0.26
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5002000**

Middle Creek @ SR 1517 (Old Sanders Hse) near Edmonson

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5626

**Longitude:** -78.5756

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.7	28.4	18.3
<i>DO (mg/l)</i>	17	N/A	4	0	6.1	11.3	8.5
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.8	7.6	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	76	303	177
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	5	62	1,600	308
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.4	45.8	13.1
<i>Turbidity (NTU)</i>	12	N/A	50	1	4.9	55.0	16.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.13	0.04
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	3.41	1.01
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.37	1.33	0.71
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.11	0.27	0.18
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5007000**

Middle Creek at SR 1504, Crantock Road in Johnston County

**Stream Class:** NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.52233

**Longitude:** -78.46694

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	4	N/A	N/A	N/A	2.0	15.0	9.5
<i>DO (mg/l)</i>	4	N/A	4	0	8.7	13.4	11.3
<i>*** pH (SU)</i>	4	N/A	6 to 9	0	6.6	7.1	N/A
<i>Conductivity (umhos/cm)</i>	4	0	N/A	N/A	107	179	141
<i>** Fecal Coliform (/100 mls)</i>	4	N/A	400	0	29	390	77
<i>Suspended Residue (mg/l)</i>	4	0	N/A	N/A	3.6	23.6	11.4
<i>Turbidity (NTU)</i>	4	N/A	50	0	6.5	37.0	16.4
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	4	2	N/A	N/A	0.02	0.09	0.04
<i>TKN_N (mg/l)</i>	4	0	N/A	N/A	0.49	1.21	0.92
<i>NO2_NO3_N (mg/l)</i>	4	0	N/A	N/A	0.43	0.56	0.50
<i>TP (mg/l)</i>	4	0	N/A	N/A	0.14	0.29	0.19
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5010000**

Middle Creek @ NC 210 near Smithfield

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5075

**Longitude:** -78.4013

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	13	N/A	N/A	N/A	2.2	28.2	20.2
<i>DO (mg/l)</i>	13	N/A	4	0	6.1	11.7	8.1
<i>*** pH (SU)</i>	13	N/A	6 to 9	0	6.1	7.2	N/A
<i>Conductivity (umhos/cm)</i>	13	0	N/A	N/A	56	259	165
<i>** Fecal Coliform (/100 mls)</i>	8	N/A	400	1	42	1,900	198
<i>Suspended Residue (mg/l)</i>	8	2	N/A	N/A	2.5	19.0	6.1
<i>Turbidity (NTU)</i>	8	N/A	50	0	5.2	28.0	11.0
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	8	4	N/A	N/A	0.02	0.11	0.05
<i>TKN_N (mg/l)</i>	8	0	N/A	N/A	0.20	1.18	0.76
<i>NO2_NO3_N (mg/l)</i>	8	0	N/A	N/A	0.18	1.06	0.61
<i>TP (mg/l)</i>	8	0	N/A	N/A	0.09	0.29	0.14
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5170000**

Black Creek @ SR 1162 (Black Creek Road) near Four Oaks

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.46925

**Longitude:** -78.45681

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	1.6	27.5	17.7
<i>DO (mg/l)</i>	17	N/A	4	1	3.5	13.9	7.2
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.7	7.2	N/A
<i>Conductivity (umhos/cm)</i>	17	1	N/A	N/A	50	94	74
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	29	681	86
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	9.7	5.1
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.6	17.0	9.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.12	0.04
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.33	1.52	0.85
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.02	0.21	0.11
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.25	0.10
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5250000**

Neuse River @ SR 1201 (Richardson Bridge Road) near Cox Mill **Stream Class:** WS-IV NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.3741

**Longitude:** -78.1962

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.6	30.8	19.6
<i>DO (mg/l)</i>	17	N/A	4	0	4.6	12.8	8.0
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.1	7.9	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	55	266	163
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	0	29	340	95
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.4	78.5	32.5
<i>Turbidity (NTU)</i>	12	N/A	50	1	7.6	130.0	28.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.16	0.04
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	1.28	0.88
<i>NO2_NO3_N (mg/l)</i>	12	0	10	0	0.18	0.76	0.37
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.07	1.36	0.31
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5390000**

Hannah Creek @ SR 1158 (Allens Crossroads Drive) near Benson

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.3868

**Longitude:** -78.511

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.1	26.5	17.7
<i>DO (mg/l)</i>	17	N/A	4	2	1.0	13.3	6.9
<i>*** pH (SU)</i>	17	N/A	6 to 9	2	5.9	7.8	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	85	124	105
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	3	8	2,400	145
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	77.3	11.3
<i>Turbidity (NTU)</i>	12	N/A	50	1	4.4	60.0	12.3
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	0	N/A	N/A	0.03	0.22	0.12
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.57	14.62	2.09
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.10	1.85	0.56
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	6.50	0.62
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J5390800**

Hannah Creek @ SR 1227 (Ivey Road) near Benson

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.4025

**Longitude:** -78.4952

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.0	27.2	17.8
<i>DO (mg/l)</i>	17	N/A	4	7	1.4	13.1	5.6
<i>*** pH (SU)</i>	17	N/A	6 to 9	2	5.0	6.7	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	67	225	134
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	0	16	230	89
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	82.8	14.8
<i>Turbidity (NTU)</i>	12	N/A	50	1	4.7	200.0	24.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	2	N/A	N/A	0.02	0.33	0.10
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.49	2.28	1.19
<i>NO2_NO3_N (mg/l)</i>	12	1	N/A	N/A	0.02	0.92	0.21
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.13	1.74	0.36
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5410000**

Mill Creek @ SR 1200 (Richardson Bridge Road) near Cox Mill

**Stream Class:** C NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.342

**Longitude:** -78.2162

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	1.8	28.7	18.4
<i>DO (mg/l)</i>	17	N/A	4	0	5.1	13.4	7.9
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.9	7.3	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	62	140	99
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	0	14	390	110
<i>Suspended Residue (mg/l)</i>	12	4	N/A	N/A	2.5	12.1	6.6
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.7	10.0	6.8
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.11	0.04
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.29	1.83	0.78
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.08	0.79	0.23
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	1.85	0.23
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5500000**

Falling Creek @ SR 1219 (Old Grantham Road) near Grantham

**Stream Class:** WS-IV NSW

**County:** Wayne

**Sub-Basin:** 03020201

**Latitude:** 35.3224

**Longitude:** -78.1282

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	18	N/A	N/A	N/A	1.7	27.5	17.3
<i>DO (mg/l)</i>	17	N/A	4	4	3.1	13.1	6.3
<i>*** pH (SU)</i>	18	N/A	6 to 9	1	5.5	6.9	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	88	156	125
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	2	14	681	75
<i>Suspended Residue (mg/l)</i>	12	6	N/A	N/A	2.5	8.1	3.6
<i>Turbidity (NTU)</i>	12	N/A	50	0	2.7	10.0	5.2
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.13	0.04
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.36	1.03
<i>NO2_NO3_N (mg/l)</i>	12	1	10	0	0.02	0.72	0.28
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.06	0.32	0.14
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

**Notes:** \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J5630000**

Little River @ SR 2320, Riley Road near Zebulon

**Stream Class:** HQW NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.8375

**Longitude:** -78.3599

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	1.1	28.6	17.8
<i>DO (mg/l)</i>	17	N/A	4	1	3.8	13.4	7.4
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.7	8.0	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	51	112	77
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	6	654	79
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	17.3	5.8
<i>Turbidity (NTU)</i>	12	N/A	50	0	2.9	17.0	9.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	8	N/A	N/A	0.02	0.26	0.05
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	5.73	1.11
<i>NO2_NO3_N (mg/l)</i>	12	1	10	0	0.02	0.20	0.09
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	2.27	0.34
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5685000**

Little River at Weaver Road near Bagley

**Stream Class:** WS-V NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5791

**Longitude:** -78.1723

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.1	28.0	18.2
<i>DO (mg/l)</i>	17	N/A	4	0	6.0	14.4	8.1
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	6.4	7.5	N/A
<i>Conductivity (umhos/cm)</i>	17	1	N/A	N/A	50	98	76
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	2	29	4,000	154
<i>Suspended Residue (mg/l)</i>	13	7	N/A	N/A	2.5	39.2	7.5
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.2	40.0	10.9
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	8	N/A	N/A	0.02	0.48	0.07
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.21	2.23	0.77
<i>NO2_NO3_N (mg/l)</i>	12	2	10	0	0.02	0.29	0.18
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.24	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5750000**

Little River at SR 2339 (Bagley Road) near Lowell Mill

**Stream Class:** WS-V NSW

**County:** Johnston

**Sub-Basin:** 03020201

**Latitude:** 35.5613

**Longitude:** -78.1594

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.1	28.3	18.3
<i>DO (mg/l)</i>	17	N/A	4	0	5.4	14.3	8.1
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.2	7.3	N/A
<i>Conductivity (umhos/cm)</i>	17	1	N/A	N/A	50	147	85
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	2	26	690	180
<i>Suspended Residue (mg/l)</i>	12	3	N/A	N/A	2.5	46.0	9.0
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.2	45.0	12.2
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	8	N/A	N/A	0.02	0.10	0.03
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.21	17.76	2.09
<i>NO2_NO3_N (mg/l)</i>	12	1	10	0	0.02	0.34	0.20
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	7.38	0.73
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5790000**

Buffalo Creek @ SR 2358 (Lake Glad Road) near Webdell, N.C. **Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020201

**Latitude:** 35.7697

**Longitude:** -78.7697

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.0	28.1	17.8
<i>DO (mg/l)</i>	17	N/A	4	0	5.3	13.8	7.7
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.1	7.7	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	50	105	75
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	3	36	654	205
<i>Suspended Residue (mg/l)</i>	12	3	N/A	N/A	2.5	11.1	5.2
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.2	21.0	9.8
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.43	0.08
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.02	0.91
<i>NO2_NO3_N (mg/l)</i>	12	1	N/A	N/A	0.02	0.58	0.16
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.25	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J5930000**

Little River @ US 581 near Cherry Hospital

**Stream Class:** C NSW

**County:** Wayne

**Sub-Basin:** 03020201

**Latitude:** 35.393

**Longitude:** -78.0258

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.3	31.3	19.2
<i>DO (mg/l)</i>	17	N/A	4	0	5.2	13.5	8.3
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.8	7.6	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	53	161	106
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	31	550	112
<i>Suspended Residue (mg/l)</i>	12	3	N/A	N/A	2.5	16.8	5.9
<i>Turbidity (NTU)</i>	12	N/A	50	0	2.9	18.0	8.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	8	N/A	N/A	0.02	0.11	0.03
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	1.97	0.83
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.09	0.42	0.28
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.06	0.26	0.12
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6010950**

Walnut Creek @ SR 1730 (Saint Johns Church Road) near  
Walnut Creek

**Stream Class:** C NSW

**County:** Wayne

**Sub-Basin:** 03020202

**Latitude:** 35.2817

**Longitude:** -77.8686

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	5.9	27.8	19.4
<i>DO (mg/l)</i>	17	N/A	4	0	4.5	11.8	7.0
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.2	7.0	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	77	102	90
<i>** Fecal Coliform (/100 mls)</i>	9	N/A	400	1	4	1,500	50
<i>Suspended Residue (mg/l)</i>	12	4	N/A	N/A	2.5	22.0	6.8
<i>Turbidity (NTU)</i>	12	N/A	50	0	1.0	28.0	7.4
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.26	0.07
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.37	1.43	0.77
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.33	4.26	1.16
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.48	0.12
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

**Notes:** \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J6024000**

Neuse River @ SR 1731 (Piney Grove Road) near Seven Springs **Stream Class:** C NSW

**County:** Wayne

**Sub-Basin:** 03020202

**Latitude:** 35.229

**Longitude:** -77.846

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.2	30.2	20.6
<i>DO (mg/l)</i>	17	N/A	4	0	4.6	12.7	7.5
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.5	7.4	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	72	234	149
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	3	26	672	133
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	79.6	27.0
<i>Turbidity (NTU)</i>	12	N/A	50	1	7.2	75.0	23.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.27	0.06
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.31	10.03	1.97
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.26	1.31	0.53
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.04	4.83	0.57
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

**Notes:** \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J6044400**

Bear Creek at SR 1603, Washington Street near LaGrange

**Stream Class:** C Sw NSW

**County:** Lenoir

**Sub-Basin:** 03020202

**Latitude:** 35.3137

**Longitude:** -77.8153

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	6.6	25.1	18.3
<i>DO (mg/l)</i>	17	N/A	4	0	6.3	12.8	8.3
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.8	6.7	N/A
<i>Conductivity (umhos/cm)</i>	17	1	N/A	N/A	50	220	129
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	4	52	1,300	218
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	30.0	9.6
<i>Turbidity (NTU)</i>	12	N/A	50	0	2.2	23.0	9.2
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	3	N/A	N/A	0.02	4.84	0.64
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.30	5.10	1.41
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.12	9.00	2.53
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	0.40	0.21
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J6044500**

Bear Creek @ SR 1311 (Bear Creek Road) near Kinston

**Stream Class:** WS-IV Sw N

**County:** Lenoir

**Sub-Basin:** 03020202

**Latitude:** 35.2489

**Longitude:** -77.7843

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	6.6	25.6	18.5
<i>DO (mg/l)</i>	17	N/A	4	0	5.9	11.5	8.3
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.3	7.3	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	101	239	125
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	4	31	1,700	206
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	36.4	10.0
<i>Turbidity (NTU)</i>	12	N/A	50	0	2.5	25.0	7.5
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	2	N/A	N/A	0.02	5.95	0.56
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.32	7.00	1.82
<i>NO2_NO3_N (mg/l)</i>	12	0	10	0	0.90	2.36	1.80
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.58	0.20
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	25	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6055000**

Mosley Creek @ SR 1327 (Willey Measley Road) near LaGrange **Stream Class:** C Sw NSW

**County:** Lenoir

**Sub-Basin:** 03020202

**Latitude:** 35.3119

**Longitude:** -77.7313

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	7.4	29.5	18.5
<i>DO (mg/l)</i>	17	N/A	4	0	6.6	11.2	8.7
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.2	7.5	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	95	157	116
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	7	44	2,000	475
<i>Suspended Residue (mg/l)</i>	12	4	N/A	N/A	2.5	39.6	9.5
<i>Turbidity (NTU)</i>	12	N/A	50	0	2.2	9.7	5.5
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	4	N/A	N/A	0.02	0.32	0.08
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.55	6.02	1.29
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.60	4.40	2.57
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.03	0.73	0.22
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6150000**

Neuse River @ NC 11 Bypass at Kinston

**Stream Class:** C NSW

**County:** Lenoir

**Sub-Basin:** 03020202

**Latitude:** 35.2587

**Longitude:** -77.5835

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.4	30.8	21.0
<i>DO (mg/l)</i>	17	N/A	4	0	4.8	12.2	7.9
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.3	7.6	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	67	211	136
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	0	16	230	66
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.6	38.5	20.4
<i>Turbidity (NTU)</i>	12	N/A	50	1	9.2	75.0	20.9
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	4	N/A	N/A	0.02	0.14	0.06
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	9.66	1.71
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.14	0.69	0.48
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.03	0.45	0.15
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6250000**

Neuse River @ NC 55 near Graingers

**Stream Class:** C NSW

**County:** Lenoir

**Sub-Basin:** 03020202

**Latitude:** 35.2957

**Longitude:** -77.4962

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.4	30.3	20.4
<i>DO (mg/l)</i>	17	N/A	4	1	3.6	12.1	7.5
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.2	7.8	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	68	227	145
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	9	2,400	85
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.9	40.5	17.9
<i>Turbidity (NTU)</i>	12	N/A	50	0	8.7	32.0	15.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.26	0.07
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.39	2.13	0.97
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.18	0.72	0.49
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	1.22	0.24
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6410000**

Little Creek @ NC 97 near Zebulon

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020203

**Latitude:** 35.8279

**Longitude:** -78.3025

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.4	24.6	16.7
<i>DO (mg/l)</i>	17	N/A	4	1	3.9	14.4	7.7
<i>*** pH (SU)</i>	17	N/A	6 to 9	2	5.4	7.3	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	69	130	108
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	6	118	2,500	383
<i>Suspended Residue (mg/l)</i>	12	4	N/A	N/A	2.5	5.3	3.4
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.9	15.0	7.2
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.17	0.05
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	1.71	0.59
<i>NO2_NO3_N (mg/l)</i>	12	1	N/A	N/A	0.02	0.53	0.33
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	0.27	0.09
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6450000**

Little Creek @ NC 39 near Zebulon

**Stream Class:** C NSW

**County:** Wake

**Sub-Basin:** 03020203

**Latitude:** 35.8125

**Longitude:** -78.2681

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	6.2	27.4	18.9
<i>DO (mg/l)</i>	17	N/A	4	0	5.4	13.8	8.1
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.2	7.4	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	131	431	308
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	5	50	745	279
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.2	100.0	22.1
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.8	50.0	15.4
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	8	N/A	N/A	0.02	1.72	0.23
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.39	2.12	1.14
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.24	2.40	1.06
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.62	0.20
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6500000**

Moccasin Creek @ SR 1131 (Antioch Church Road) near Conner **Stream Class:** C NSW

**County:** Wilson

**Sub-Basin:** 03020203

**Latitude:** 35.7301

**Longitude:** -78.1895

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.3	26.6	17.7
<i>DO (mg/l)</i>	17	N/A	4	1	3.3	13.7	7.7
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.4	7.7	N/A
<i>Conductivity (umhos/cm)</i>	17	1	N/A	N/A	50	174	100
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	2	26	863	200
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	18.3	7.8
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.7	31.0	11.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	8	N/A	N/A	0.02	0.17	0.04
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	1.49	0.75
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.02	1.17	0.24
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.17	0.09
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6680000**

Turkey Creek @ SR 1101 (Claude Lewis Rodd) near Middlesex **Stream Class:** C NSW

**County:** Nash

**Sub-Basin:** 03020203

**Latitude:** 35.7519

**Longitude:** -78.1597

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.4	28.5	17.8
<i>DO (mg/l)</i>	17	N/A	4	3	1.2	13.1	6.5
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.1	7.5	N/A
<i>Conductivity (umhos/cm)</i>	17	3	N/A	N/A	50	96	69
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	31	3,700	152
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	19.5	7.8
<i>Turbidity (NTU)</i>	12	N/A	50	0	6.1	49.0	17.2
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.09	0.03
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.52	15.62	2.21
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.02	1.09	0.17
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	6.39	0.63
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6765000**

Contentnea Creek at Willow Springs drive near Dixie

**Stream Class:** C Sw NSW

**County:** Wilson

**Sub-Basin:** 03020203

**Latitude:** 35.6838

**Longitude:** -77.941

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	2.8	31.0	20.2
<i>DO (mg/l)</i>	17	N/A	4	1	3.3	13.6	7.2
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.5	7.2	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	56	77	67
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	2	24	881	82
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.1	22.8	7.8
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.3	17.0	8.9
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.16	0.04
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.33	1.50	0.86
<i>NO2_NO3_N (mg/l)</i>	12	1	N/A	N/A	0.02	0.34	0.13
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.22	0.09
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J6890000**

Contentnea Creek @ SR 1622 (Evansdale Road) near Wilson

**Stream Class:** C Sw NSW

**County:** Wilson

**Sub-Basin:** 03020203

**Latitude:** 35.6429

**Longitude:** -77.8902

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.0	30.7	20.1
<i>DO (mg/l)</i>	17	N/A	4	0	5.1	13.8	7.8
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.4	7.3	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	65	225	150
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	34	490	101
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	12.1	6.0
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.1	16.0	8.5
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	7	N/A	N/A	0.02	0.13	0.05
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.33	1.79	0.91
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.05	1.16	0.50
<i>TP (mg/l)</i>	12	3	N/A	N/A	0.02	0.19	0.09
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J7210000**

Contentnea Creek @ NC 58 near Stantonburg

**Stream Class:** C Sw NSW

**County:** Wilson

**Sub-Basin:** 03020203

**Latitude:** 35.5861

**Longitude:** -77.8111

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.0	30.4	19.9
<i>DO (mg/l)</i>	17	N/A	4	1	3.8	12.6	7.4
<i>*** pH (SU)</i>	17	N/A	6 to 9	1	5.0	7.2	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	67	229	141
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	21	590	147
<i>Suspended Residue (mg/l)</i>	12	1	N/A	N/A	2.5	17.7	6.9
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.6	19.0	10.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	1.30	0.15
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.33	3.46	1.12
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.04	0.56	0.32
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	0.27	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J7240000**

Toisnot Swamp @ SR 1539 (Sand Pit Road) near Stantonsburg

**Stream Class:** C Sw NSW

**County:** Wilson

**Sub-Basin:** 03020203

**Latitude:** 35.5976

**Longitude:** -77.7947

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.3	28.3	18.3
<i>DO (mg/l)</i>	17	N/A	4	2	2.6	11.5	6.4
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.0	7.1	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	71	107	93
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	1	16	590	96
<i>Suspended Residue (mg/l)</i>	12	4	N/A	N/A	2.5	16.0	6.3
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.8	50.0	13.6
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.25	0.06
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.38	1.75	1.03
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.03	0.86	0.23
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	0.24	0.11
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J7325000**

Nahunta Swamp @ NC 58 near Contentnea

**Stream Class:** C Sw NSW

**County:** Greene

**Sub-Basin:** 03020203

**Latitude:** 35.5081

**Longitude:** -77.7455

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.0	27.0	18.2
<i>DO (mg/l)</i>	17	N/A	4	0	5.7	12.2	8.0
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.0	7.2	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	88	128	108
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	2	58	570	205
<i>Suspended Residue (mg/l)</i>	12	4	N/A	N/A	2.5	21.8	7.6
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.5	26.0	10.4
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	2	N/A	N/A	0.02	0.53	0.13
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.50	1.91	0.96
<i>NO2_NO3_N (mg/l)</i>	12	1	N/A	N/A	0.02	1.69	1.12
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	0.32	0.12
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J7330000**

Contentnea Creek @ US 13 near Snow Hill

**Stream Class:** C Sw NSW

**County:** Greene

**Sub-Basin:** 03020203

**Latitude:** 35.4585

**Longitude:** -77.6753

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.6	29.5	19.8
<i>DO (mg/l)</i>	17	N/A	4	0	4.6	12.5	7.7
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.2	7.1	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	69	155	116
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	31	2,000	125
<i>Suspended Residue (mg/l)</i>	12	3	N/A	N/A	2.5	13.0	5.9
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.0	16.0	8.7
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	5	N/A	N/A	0.02	0.24	0.05
<i>TKN_N (mg/l)</i>	12	1	N/A	N/A	0.20	2.72	1.01
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.28	0.95	0.64
<i>TP (mg/l)</i>	12	1	N/A	N/A	0.02	2.10	0.29
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J7690000**

Little Contentnea Creek @ SR 1218 (Chinquapin Road) near Farmville

**Stream Class:** C Sw NSW

**County:** Pitt

**Sub-Basin:** 03020203

**Latitude:** 35.5881

**Longitude:** -77.5416

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.3	27.9	18.7
<i>DO (mg/l)</i>	17	N/A	4	8	1.1	11.9	5.3
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.1	7.3	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	94	559	214
<i>** Fecal Coliform (/100 mls)</i>	10	N/A	400	4	60	3,600	259
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	5.2	54.0	15.4
<i>Turbidity (NTU)</i>	12	N/A	50	0	3.6	26.0	11.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	1	N/A	N/A	0.02	19.60	2.89
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.73	47.35	6.23
<i>NO2_NO3_N (mg/l)</i>	12	2	N/A	N/A	0.02	7.13	1.23
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.14	3.40	0.58
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J7740000**

Little Contentnea Creek @ SR 1110 (HWY 903) near Scuffleton **Stream Class:** C Sw NSW

**County:** Pitt

**Sub-Basin:** 03020203

**Latitude:** 35.4567

**Longitude:** -77.4854

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	3.6	28.2	19.2
<i>DO (mg/l)</i>	17	N/A	4	2	3.2	11.5	6.5
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.2	7.1	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	79	302	161
<i>** Fecal Coliform (/100 mls)</i>	11	N/A	400	1	4	460	112
<i>Suspended Residue (mg/l)</i>	12	2	N/A	N/A	2.5	21.2	8.0
<i>Turbidity (NTU)</i>	12	N/A	50	0	4.7	20.0	10.1
<i>Chlorophyll-a (ug/l)</i>	0	0	40	0			
<i>NH3_N (mg/l)</i>	12	4	N/A	N/A	0.02	0.23	0.08
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.40	1.99	0.97
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.13	0.95	0.52
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.10	0.57	0.24
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>**** Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*

## 2025 LNBA Monitoring Report

**Station J7850000**

Neuse River @ SR 1470 (Maple Cypress Road) at the boat ramp dock upstream of the bridge. **Stream Class:** C Sw NSW

**County:** Craven

**Sub-Basin:** 03020202

**Latitude:** 35.31368

**Longitude:** -77.30287

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.2	29.2	20.5
<i>DO (mg/l)</i>	17	N/A	4	0	5.0	12.1	7.7
<i>*** pH (SU)</i>	17	N/A	6 to 9	0	6.4	8.1	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	67	247	141
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	0	16	270	76
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	4.0	20.6	13.4
<i>Turbidity (NTU)</i>	12	N/A	50	0	7.9	21.0	12.6
<i>Chlorophyll-a (ug/l)</i>	10	1	40	0	1.00	19.00	6.30
<i>NH3_N (mg/l)</i>	12	6	N/A	N/A	0.02	0.71	0.15
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.51	1.94	0.89
<i>NO2_NO3_N (mg/l)</i>	12	0	N/A	N/A	0.19	0.78	0.57
<i>TP (mg/l)</i>	12	0	N/A	N/A	0.02	1.29	0.26
<i>Cadmium (ug/l)</i>	0	0	2	0			
<i>Chromium (ug/l)</i>	0	0	50	0			
<i>Copper (ug/l)</i>	0	0	7	0			
<i>Nickel (ug/l)</i>	0	0	88	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	50	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	N/A	N/A			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.012	N/A			

**Notes:** \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.

\*\* The Fecal Coliform average is a geometric mean.

\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions

\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.

## 2025 LNBA Monitoring Report

**Station J8870000**

Trent River @ the Alfred Cunningham Drawbridge on E. Front Street, New Bern

**Stream Class:** SB Sw NSW

**County:** Craven

**Sub-Basin:** 03020204

**Latitude:** 35.10159

**Longitude:** -77.03708

	N	N<RL	Ref	N >Ref or N< Ref	Minimum	Maximum	* Average
<i>Temperature ( C)</i>	17	N/A	N/A	N/A	4.7	29.9	21.1
<i>DO (mg/l)</i>	17	N/A	5	3	2.4	11.4	6.8
<i>*** pH (SU)</i>	17	N/A	6.8 to 8.5	1	6.7	8.0	N/A
<i>Conductivity (umhos/cm)</i>	17	0	N/A	N/A	449	22,557	8,347
<i>** Fecal Coliform (/100 mls)</i>	12	N/A	400	1	16	681	59
<i>Suspended Residue (mg/l)</i>	12	0	N/A	N/A	3.6	16.2	7.0
<i>Turbidity (NTU)</i>	12	N/A	25	1	2.4	27.0	7.5
<i>Chlorophyll-a (ug/l)</i>	10	0	40	1	1.00	42.00	17.90
<i>NH3_N (mg/l)</i>	12	4	N/A	N/A	0.02	0.54	0.11
<i>TKN_N (mg/l)</i>	12	0	N/A	N/A	0.66	22.21	3.25
<i>NO2_NO3_N (mg/l)</i>	12	2	10	0	0.02	0.26	0.14
<i>TP (mg/l)</i>	12	2	N/A	N/A	0.02	4.87	0.71
<i>Cadmium (ug/l)</i>	0	0	5	0			
<i>Chromium (ug/l)</i>	0	0	20	0			
<i>Copper (ug/l)</i>	0	0	3	0			
<i>Nickel (ug/l)</i>	0	0	8	0			
<i>Lead (ug/l)</i>	0	0	25	0			
<i>Zinc (ug/l)</i>	0	0	86	0			
<i>****Aluminum (ug/l)</i>	0	0	87	0			
<i>Iron (ug/l)</i>	0	0	1,000	0			
<i>Manganese (ug/l)</i>	0	0	200	0			
<i>Arsenic (ug/l)</i>	0	0	10	0			
<i>Mercury (ug/l)</i>	0	0	0.025	N/A			

*Notes: \* Results below the laboratory reporting limit (<RL) are included in the calculation as if they were at the reporting level.*

*\*\* The Fecal Coliform average is a geometric mean.*

*\*\*\* Tidal salt waters classified as swamp waters may have a pH as low as 4.3 if it is the result of natural conditions*

*\*\*\*\* The aluminum reference level (Ref) is from the EPA's national recommended water quality criteria.*