

Water-Data Report 2012

02043884 LITTLE RIVER NEAR WEEKSVILLE, NC

 Albemarle-Chowan Basin
 Albemarle Subbasin

LOCATION.--Lat 36°07'51", long 76°12'49" referenced to North American Datum of 1983, Pasquotank County, NC, Hydrologic Unit 03010205, approximately 2 mi northwest of Stevenson Point.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to August 2012.

REMARKS.--Station operated in 2012 to define water quality in the Albemarle Sound as part of the National Monitoring Network for U.S. Coastal Waters and their Tributaries. Water-quality samples were collected through a zone equal to double the secchi depth using the depth-integration sampling technique.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

| Date | Sample start time | Medium name | Sample type | Barometric pressure, mm Hg (00025) | Temperature, air, °C (00020) | Depth to bottom from water surface, at sampling location, meters (82903) | | Dissolved oxygen, water, unfiltered, mg/L (00300) | water, unfiltered, field, standard units (00400) | pH, water, unfiltered, standard units (00400) | Specific conductance, water, unfiltered, µS/cm at 25°C (00095) |
|------------|-------------------|---------------|-------------|------------------------------------|------------------------------|--|--|---|--|---|--|
| | | | | | | | | | | | |
| 07-24-2012 | 1200 | Surface water | Regular | 758 | 30.2 | 3.40 | | 9.1 | 8.5 | | 5,430 |
| 08-29-2012 | 1200 | Surface water | Regular | 759 | 28.7 | 3.50 | | 9.8 | 9.2 | | 4,840 |

02043884 LITTLE RIVER NEAR WEEKSVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

| Date | Sample start time | Temperature, water, °C (00010) | Transparency, water, in situ, Secchi disc, m (00078) | micromole s of photons per square meter per second (99988) | Sampling depth, m (00098) | Dissolved solids | | Calcium, water, filtered, mg/L (00915) | Magnesium, water, filtered, mg/L (00925) | Potassium, water, filtered, mg/L (00935) |
|------------|-------------------|-----------------------------------|---|---|------------------------------|--|--|---|---|---|
| | | | | | | dried at 180°C, water, filtered, mg/L (70300) | Suspended solids, water, unfiltered, mg/L (00530) | | | |
| 07-24-2012 | 1200 | 28.9 | 0.50 | 1,340 | 1.0 | 3,020 | < 15 | 39.6 | 108 | 32.4 |
| 08-29-2012 | 1200 | 28.3 | .40 | 1,650 | .80 | 2,700 | < 15 | 34.7 | 94.5 | 30.3 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 5

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| Date | Sample start time | Sodium, water, filtered, mg/L (00930) | titration, laboratory, mg/L as CaCO ₃ (29801) | Alkalinity, water, filtered, titration, laboratory, mg/L as CaCO ₃ fixed, inflection-point, endpoint (pH 4.5) incremental titration | Chloride, field, method, mg/L as CaCO ₃ | Fluoride, water, filtered, mg/L as CaCO ₃ | Silica, water, filtered, mg/L as SiO ₂ | Sulfate, water, filtered, mg/L as SiO ₂ | Ammonia plus organic nitrogen, water, mg/L as N | |
|------------|-------------------|--|---|---|--|--|---|--|--|--|
| | | | | | | | | | Ammonia, water, unfiltered, mg/L as N (00625) | Ammonia, water, filtered, mg/L as N (00608) |
| 07-24-2012 | 1200 | 855 | 40.5 | 40.0 | 1,650 | 0.17 | 2.77 | 216 | 1.3 | < .010 |
| 08-29-2012 | 1200 | 754 | -- | 40.0 | 1,460 | .15 | 2.74 | 184 | 1.3 | .016 |

02043884 LITTLE RIVER NEAR WEEKSVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

| Date | Sample start time | Nitrate plus nitrite, water, filtered, | Nitrite, water, filtered, | Orthophosphate, water, filtered, | Phosphorus, water, unfiltered, | Chlorophyll a, phyto-plankton, chromatographic method, | Aluminum, water, filtered, | Cobalt, water, filtered, | Copper, water, filtered, |
|------------|-------------------|--|---------------------------|----------------------------------|--------------------------------|--|----------------------------|--------------------------|--------------------------|
| | | mg/L as N (00631) | mg/L as N (00613) | mg/L as P (00671) | mg/L as P (00665) | µg/L (70953) | µg/L (01106) | µg/L (01035) | µg/L (01040) |
| 07-24-2012 | 1200 | <.040 | 0.001 | <.004 | 0.090 | 47.1 | <8.8 | 2.52 | <3.2 |
| 08-29-2012 | 1200 | <.040 | .002 | <.004 | .110 | 63.4 | 7.6 | .908 | <2.4 |

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Part 5 of 5

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| Date | Sample start time | Iron, water, filtered, | Lead, water, filtered, | Manganese, water, filtered, | Molybdenum, water, filtered, | Nickel, water, filtered, | Zinc, water, filtered, |
|------------|-------------------|------------------------|------------------------|-----------------------------|------------------------------|--------------------------|------------------------|
| | | µg/L (01046) | µg/L (01049) | µg/L (01056) | µg/L (01060) | µg/L (01065) | µg/L (01090) |
| 07-24-2012 | 1200 | <9.6 | 0.186 | 4.20 | 3.07 | 0.40 | <5.6 |
| 08-29-2012 | 1200 | <9.6 | <.075 | 1.61 | 1.40 | .38 | <4.2 |