

0208117801 ALBEMARLE SOUND BELOW SCUPPERNONG RIVER NEAR MILL POINT, NC

Albemarle-Chowan Basin
Albemarle Subbasin

LOCATION.--Lat 36°01'17", long 76°18'22" referenced to North American Datum of 1983, Tyrrell County, NC, Hydrologic Unit 03010205, downstream from Scuppernong River and approximately 5.0 mi northeast of Mill Point.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 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; <, 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, unfiltered, mg/L (00300) | pH, water, unfiltered, field, standard units (00400) | Specific conductance, unfiltered, water, unfiltered, µS/cm at 25°C (00095) |
|------------|-------------------|---------------|-------------|------------------------------------|------------------------------|--|--|--|--|
| 07-19-2012 | 1030 | Surface water | Regular | 761 | 32.2 | 6.40 | 8.6 | 7.7 | 7,270 |

0208117801 ALBEMARLE SOUND BELOW SCUPPERNONG RIVER NEAR MILL POINT, 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; <, less than]

| Date | Sample start time | Temperature, water, °C (00010) | Transparency, water, in situ, Secchi disc, m (00078) | Photosynthetically active radiation (average flux density on a horizontal surface during measurement interval), micromoles of photons per square meter per second | | Sampling depth, m (00098) | Dissolved solids dried at 180°C, water, filtered, mg/L (70300) | Suspended solids, water, unfiltered, mg/L (00530) | Calcium, water, filtered, mg/L (00915) | Magnesium, water, filtered, mg/L (00925) | Potassium, water, filtered, mg/L (00935) |
|------------|-------------------|--------------------------------|--|---|-----|---------------------------|--|---|--|--|--|
| | | | | | | | | | | | |
| 07-19-2012 | 1030 | 27.0 | 1.30 | 1,830 | 2.6 | 4,080 | < 15 | 48.9 | 148 | 44.5 | |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 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; <, less than]

| Date | Sample start time | Sodium, water, filtered, mg/L (00930) | Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (29801) | Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086) | Chloride, water, filtered, mg/L (00940) | Fluoride, water, filtered, mg/L (00950) | Silica, water, filtered, mg/L as SiO ₂ (00955) | Sulfate, water, filtered, mg/L (00945) | Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625) | Ammonia, water, filtered, mg/L as N (00608) |
|------------|-------------------|---------------------------------------|---|---|---|---|---|--|---|---|
| | | | | | | | | | | |
| 07-19-2012 | 1030 | 1,190 | 37.4 | 40.0 | 2,180 | 0.14 | 2.63 | 290 | 0.59 | 0.011 |

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WATER-QUALITY DATA
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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; <, less than]

| Date | Sample start time | Nitrate plus nitrite, water, filtered, mg/L as N (00631) | Nitrite, water, filtered, mg/L as N (00613) | Orthophosphate, water, filtered, mg/L as P (00671) | Phosphorus, water, unfiltered, mg/L as P (00665) | Chlorophyll a, phytoplankton, chromatographic-fluorometric method, µg/L (70953) | Aluminum, water, filtered, µg/L (01106) | Cobalt, water, filtered, µg/L (01035) | Copper, water, filtered, µg/L (01040) |
|------------|-------------------|--|---|--|--|---|---|---------------------------------------|---------------------------------------|
| | | | | | | | | | |
| 07-19-2012 | 1030 | < .040 | < .001 | < .004 | 0.027 | 8.8 | < 8.8 | < .084 | < 3.2 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 5 of 5

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| Date | Sample start time | Iron, water, filtered, µg/L (01046) | Lead, water, filtered, µg/L (01049) | Manganese, water, filtered, µg/L (01056) | Molybdenum, water, filtered, µg/L (01060) | Nickel, water, filtered, µg/L (01065) | Zinc, water, filtered, µg/L (01090) |
|------------|-------------------|-------------------------------------|-------------------------------------|--|---|---------------------------------------|-------------------------------------|
| | | | | | | | |
| 07-19-2012 | 1030 | 4.6 | 0.100 | 1.93 | 4.25 | 0.50 | < 5.6 |