



Water-Data Report 2012

0204347502 CURRITUCK SOUND BELOW U.S. HIGHWAY 158 NEAR KITTY HAWK, NC

Albemarle-Chowan Basin
Albemarle Subbasin

LOCATION.--Lat 36°05'27", long 75°44'35" referenced to North American Datum of 1983, Dare County, NC, Hydrologic Unit 03010205, immediately downstream of eastern end of bridge on U.S. Highway 158, and approximately 3.2 mi northwest of Kitty Hawk.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--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 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, unfiltered, water, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, unfiltered, water, µS/cm at 25°C (00095)
08-07-2012	1100	Surface water	Regular	760	25.6	0.80	7.7	8.0	10,900
08-07-2012	1105	<i>QC sample - Artificial</i>	<i>Blank</i>	--	--	--	--	--	--

0204347502 CURRITUCK SOUND BELOW U.S. HIGHWAY 158 NEAR KITTY HAWK, 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)	Trans- parency, 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)
08-07-2012	1100	28.1	0.60	930	0.80	6,150	54	77.1	218	70.0	
08-07-2012	1105	--	--	--	--	< 20	< 15	< .022	< .011	< .03	

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; --, no data; <, less than]

Date	Sample start time	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, fixed endpoint 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)
08-07-2012	1100	1,900	54.2	56.2	3,320	0.26	0.473	449	1.0	0.082
08-07-2012	1105	< .06	< 4.6	--	.08	< .04	< .018	.19	< .07	< .010

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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, 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)
08-07-2012	1100	< .040	< .001	< .004	0.043	13.7	32.6	0.990	52.9
08-07-2012	1105	< .040	< .001	< .004	< .004	< 1.0	< 2.2	< .021	< .80

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)
08-07-2012	1100	< 19.2	0.297	1.84	3.99	3.5	75.8
08-07-2012	1105	< 3.2	< .025	< .16	< .014	< .09	< 1.4