

Water-Data Report 2013

335144077593801 Local number BR-373 BT1 NEAR BALD HEAD ISLAND, NC (SURFICIAL)

Northern Atlantic Coastal Plain aquifer system
Quaternary System

Brunswick County, NC

LOCATION.--Lat 33°51'43.56", long 77°59'38.20" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03030005, located off Bay Tree Trail in the Village of Bald Head Island. Owner: Village of Bald Head Island, NC.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, drilled to 35 ft, diameter 4 in., cased to 25 ft, screened interval from 25 to 35 ft.

DATUM.--Land-surface datum is 7.26 ft above North American Vertical Datum of 1988 (levels by Village of Bald Head Island). Measuring point: mark on casing, 2.87 ft above land-surface datum.

PERIOD OF RECORD.--December 2012.

GAGE.--Measured periodically with an electric tape.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measurement method	Water-level status
Dec 19, 2012	2.98	T	--

335144077593801 Local number BR-373 BT1 NEAR BALD HEAD ISLAND, NC (SURFICIAL)—Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA

WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 4

[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Medium name	Sample type	Depth to water level, ft below land surface (72019)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
12-19-2012	1445	Groundwater	Regular	2.98	0.1	0.0	7.4	870	20.9	450

WATER-QUALITY DATA

WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 4

[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (00419)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)
12-19-2012	1445	91.3	20.8	9.10	61.0	242	0.278	92.1	0.28	25.9

WATER-QUALITY DATA

WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 4

[% , percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	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, filtered, mg/L as P (00666)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Iron, water, filtered, µg/L (01046)
12-19-2012	1445	34.8	1.40	<.040	0.002	0.338	0.31	2.11	2,450

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**WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO
SEPTEMBER 2013**

Part 4 of 4

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Manganese, water, filtered, µg/L (01056)
12-19-2012	1445	167