



Water-Data Report 2011

**282533081082202 Local number Cocoa-C (Zone 1) Well near Bithlo, FL.**

Floridan aquifer system  
Floridan Aquifer System

Orange County, FL

LOCATION.--Lat 28°25'33", long 81°08'22" referenced to North American Datum of 1927, in SW ¼ NE ¼ SW ¼ sec.5, T.24 S., R.32 E., Orange County, FL, Hydrologic Unit 03080101, in Cocoa well field, 10 ft north of Wewahootee Road, 6.6 mi east of State Highway 15, and 10 mi south of Bithlo. Owner: U.S. Geological Survey.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 1,357 ft. Upper casing diameter 1.25 in; top of first opening 1,351 ft, bottom of last opening 1,357 ft. Drilled, observation, artesian well, cased to 1,351 ft.

DATUM.--Land-surface datum is 63.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of male quick connect coupling, 2.69 ft above land-surface datum, May 5, 2009, to present.

PERIOD OF RECORD.--December 1965 (annually); February 1966 to April 1999 (monthly); May 1999 to August 2000 (bimonthly); November 2000 to current year (quarterly).

GAGE.--Quarterly measurement with steel or electric tape.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.81 ft above NGVD of 1929, Dec. 6, 1965; lowest measured, 25.67 ft above NGVD of 1929, April 25, 2001.

**WATER SURFACE ELEVATION IN FEET NGVD 1929  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

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

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 1	30.34	S	--	May 10	27.29	T	--
Jan 13	27.83	S	--	Aug 2	27.95	S	--
Apr 13	29.01	S	--				

Water year 2011 lowest: 27.29, May 10, 2011, highest: 30.34, Oct 1, 2010

## 282533081082202 Local number Cocoa-C (Zone 1) Well near Bithlo, FL.—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 2

[CaCO<sub>3</sub>, calcium carbonate; SiO<sub>2</sub>, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter]

Date	Sample start time	pH, water, unfiltered, 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)		Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
05-10-2011	1415	7.8	12,500	24.0	8,020	2,180	391	290	71.3	2,010	

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 2

[CaCO<sub>3</sub>, calcium carbonate; SiO<sub>2</sub>, silicon dioxide; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter]

Date	Sample start time	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO <sub>3</sub> (39086)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO <sub>2</sub> (00955)	Sulfate, water, filtered, mg/L (00945)	Strontium, water, filtered, µg/L (01080)
05-10-2011	1415	73	3,850	.28	5.7	1,300	11,900