

265138080375801 Local number PB -1818

Surficial Aquifer System

Palm Beach County, FL

LOCATION.--Lat 26°51'38.2", long 80°37'57.93" referenced to North American Datum of 1983, Palm Beach County, FL, Hydrologic Unit 03090202, 110 ft northwest of U.S. Highway 441 and 660 ft southwest of State Road 700, in the southeast corner of a park.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 145.65 ft. Upper casing diameter 2; top of first opening 135 ft, bottom of last opening 140 ft

DATUM.--Land-surface datum is 15.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: From April 2, 2011, to present, measuring point has been top of casing, 15.6 ft above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 2011 to current year. See REMARKS.

INSTRUMENTATION.--Bimonthly measurement with chalked steel tape or electric tape. Bimonthly profile with electromagnetic induction logger. See REMARKS.

REMARKS.--Well is also used for salinity monitoring, including monthly induction logs beginning August 2011. Induction logs are used to assess the movement of the fresh-water/salt-water interface in groundwater. See [RECORDS OF BULK CONDUCTIVITY](#).

In order to display changes in bulk conductivity between induction logs collected over the period of record, each log has been adjusted to a median conductivity value at a depth that corresponds to a stable lithologic feature which produces a consistent conductivity profile, based on data collected from 2011 to the current year. These adjustments compensate for small variations in equipment response resulting from variations in environmental conditions and/or probe calibrations. For this station, induction logs are adjusted to a mean response of 6.7 mS/m at a depth of 24.5 ft below land surface. The resulting plot of logs collected from 2011 to the current year is provided in this report. The original and corrected records of bulk conductivity, in millisiemens per meter, are available in files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--

WATER-LEVEL ELEVATION: Highest water level measured, 9.88 ft NGVD, Feb. 23, 2012; lowest, 3.38 ft NGVD, Aug. 29, 2012.

CHLORIDE CONCENTRATION: Highest measured chloride concentration, 15,000 mg/L, June 19, 2012; lowest, 14,000 mg/L, Aug. 15, 2011, many days during water year 2012.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[NGVD, National Geodetic Vertical Datum; ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter]

Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Elevation above NGVD 1929, ft (72020)	Chloride, water, unfiltered, mg/L (99220)
August 15, 2011	1126	43,100	8.95	14,000

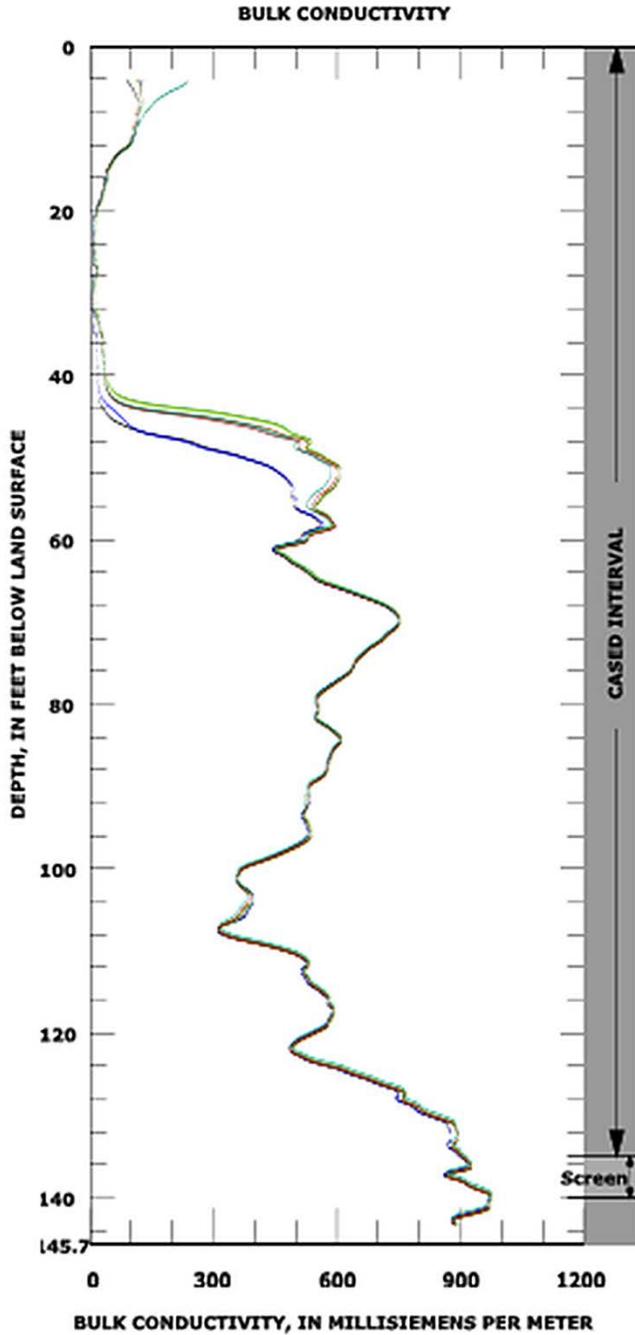
265138080375801 Local number PB -1818—Continued

WATER-QUALITY DATA**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**[NGVD, National Geodetic Vertical Datum; ft, feet; mg/L, milligrams per liter;
°C, degrees Celsius; $\mu\text{S}/\text{cm}$, microsiemens per centimeter]

Date	Sample start time	Specific conduc- tance, water, unfiltered, $\mu\text{S}/\text{cm}$ at 25°C (00095)	Elevation above NGVD 1929, ft (72020)	Chloride, water, unfiltered, mg/L (99220)
October 26, 2011	1509	41,700	8.82	14,000
December 13, 2011	1537	42,100	9.79	14,000
February 23, 2012	1611	42,500	9.88	14,000
April 25, 2012	1515	41,800	9.60	14,000
June 19, 2012	1541	42,700	9.30	15,000
August 29, 2012	1308	41,700	3.38	14,000



WY 2012 Induction log results
 Station: USGS 265138080375801
 Local name: PB -1818



**INDUCTION LOG DATES,
 ASSOCIATED CHLORIDE SAMPLE DATES**

Induction log date	Chloride sample date	Dissolved chloride concentration, in mg/L
Aug. 15, 2011	Aug. 9, 2011	14,000
Oct. 26, 2011	Oct. 19, 2011	14,000
Dec. 13, 2011	Dec. 15, 2011	14,000
Feb. 23, 2012	Feb. 24, 2012	14,000
Apr. 24, 2012	Apr. 24, 2012	14,000
June 19, 2012	June 19, 2012	15,000
Aug. 29, 2012	Aug. 28, 2012	14,000