

Water-Data Report 2012

253202080232601 Local number G 3162. USGS Observation Well near Homestead, FL

Biscayne aquifer
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°31'32.76", long 80°23'22.14" referenced to North American Datum of 1983, in NE ¼ SE ¼ SW ¼ sec.25, T.56 S., R.39 E., Miami-Dade County, FL, Hydrologic Unit 03090202, along the south bank of canal C-102 (Princeton Canal), about 0.27 mi east of the bridge at SW 125th Avenue, and 2 mi east of U.S. Highway 1.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 92 ft. Upper casing diameter 1.5; top of first opening 82 ft, bottom of last opening 92 ft. Well is obstructed 69.2 ft below land surface. See REMARKS.

DATUM.--Land-surface datum is 6 ft above National Geodetic Vertical Datum of 1929. Measuring point: From January 2008 to present, measuring point has been top of casing, 5.77 ft above National Geodetic Vertical Datum of 1929 (NGVD). From Aug. 11, 1981, to Sept. 30, 2007, measuring point was top of casing, 5.78 ft above NGVD. See REMARKS.

PERIOD OF RECORD.--April 1978 to May 1983 (salinity only), June 1983 to April 1997 (monthly), October 1997 to September 2008 (semiannual), October 2008 to October 2010 (quarterly), January 2011 to present.

INSTRUMENTATION.--Monthly water-level measurement with chalked steel tape or electric tape. See REMARKS.

REMARKS.--Site is used for salinity monitoring. Site was damaged at the end of WY 2007. Well is subsequently obstructed 69.2 ft below land surface, but is still in communication with the aquifer.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER-LEVEL ELEVATION: Highest water level measured, 2.97 ft NGVD, Sept. 27, 1995; lowest, 0.82 ft NGVD, June 01, 2011.

CHLORIDE CONCENTRATION: Highest measured chloride concentration, 1,380 mg/L, Aug. 24, 2012; lowest, 44 mg/L, Mar. 26, 1984.

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; µS/cm, microsiemens per centimeter; --, no data]

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)
October 21, 2011	1120	--	1.55	--
November 18, 2011	1025	4,510	1.33	1,280
December 21, 2011	1100	4,210	1.48	1,260
January 12, 2012	0915	4,230	1.74	1,220
February 17, 2012	1013	4,210	1.34	1,240
March 13, 2012	1115	4,160	1.68	1,200
April 17, 2012	1125	4,100	1.82	1,200
May 14, 2012	1143	4,200	2.09	1,240
June 21, 2012	1429	4,320	2.21	1,280
July 10, 2012	1450	4,380	1.83	1,320
August 24, 2012	1116	4,370	1.70	1,380
September 13, 2012	1313	4,420	2.05	1,357