

Water-Data Report 2012

252944080233401 Local number G 1179. USGS Observation Well in Homestead, FL.

Biscayne aquifer
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°29'44.9", long 80°23'33.8" referenced to North American Datum of 1983, in NE ¼ SW ¼ SW ¼ sec.1, T.57 S., R.39 E., Miami-Dade County, FL, Hydrologic Unit 03090202, 23 mi southwest of Miami, 3 mi southeast of U.S. Highway 1, in field southeast of Sandia and St. Lo intersection at Homestead Air Force Base.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Drilled, observation, water-table well, depth 80 ft, diameter 9 in.

DATUM.--Land-surface datum is 8 ft above National Geodetic Vertical Datum of 1929. Measuring point: From July 21, 1981, to present, measuring point has been top of casing, 8.57 ft above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1983 to March 1997 (monthly), April 1997 to December 2010 (semiannual), January 2011 to current year.

INSTRUMENTATION.--Monthly measurement with chalked tape, or electric water-level gage.

REMARKS.--Well has been used for salinity monitoring intermittently from December 1961 to February 1967, monthly since May 1971. The well casing has become obstructed at a depth of 55 ft. A sampling tube has been inserted into the well to its full depth for the collection of chloride samples. The well remains in hydrologic communication with the aquifer. During the 2012 WY, G-1179 was covered by debris due to nearby construction; as a result, water level measurements and Chloride samples have been unobtainable as of February 2012.

EXTREMES FOR PERIOD OF RECORD.--

WATER-LEVEL ELEVATION: Highest water level measured, 4.22 ft NGVD, May 31, 1985; lowest, 0.73 ft NGVD, June 1, 2011.

CHLORIDE CONCENTRATION: Highest measured chloride concentration, 5,300 mg/L, July 26, 1990; lowest, 1,720 mg/L, April 7, 2011.

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]

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	1435	9,930	2.05	3,150
November 18, 2011	1130	9,360	1.63	3,000
December 21, 2011	1253	9,260	1.60	3,000
January 12, 2012	1120	9,050	1.59	2,850
February 17, 2012	1133	8,930	1.76	2,850