

**251241080385301 Local number G 3764. USGS Observation Well near Florida City, FL.**

Biscayne aquifer  
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°12'36", long 80°38'52" referenced to North American Datum of 1983, in T.6 O., R.37 E., Miami-Dade County, FL, Hydrologic Unit 03090202, in Madeira Bay Quadrangle, approximately 12 mi northwest of Key Largo.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 12.77 ft. Upper casing diameter 2; top of first opening not recorded, bottom of last opening not recorded.

DATUM.--Land-surface datum is undefined. Measuring point: From October 2003 to present, measuring point has been top of casing, 3.0 ft above North American Vertical Datum of 1988.

PERIOD OF RECORD.--Water levels, salinity, specific conductance, water temperature. October 2003 to September 2011 (daily), October 2011 to current year (discrete measurements).

GAGE.--Monthly measurement with chalked tape. Satellite data collection platform with pressure transducer, conductivity, and water temperature probe, until November 2011, when equipment removed. See REMARKS.

REMARKS.--This well used for salinity monitoring. Water level, specific conductance and water temperature records are available in the files of the U.S. Geological Survey. Water level, specific conductance, salinity and water temperature 15 minute data can also be accessed online at <http://sofia.usgs.gov/>. Daily values are available online at <http://waterdata.usgs.gov/nwis>. Discrete salinity monitoring starting 2012 water year. Discrete measurements are available online at <http://waterdata.usgs.gov/>, (See Field/Lab-water-quality samples and Field groundwater-level measurements).

EXTREMES FOR PERIOD OF RECORD.--

WATER-LEVEL ELEVATION: Highest daily maximum water level, 1.21 ft NAVD88, Sept. 29, 2010; lowest, 0.86 ft below NAVD88, May 25, 2004, and Feb. 5, 2009.

WATER-LEVEL ELEVATION: Highest water level measured, 0.91 ft NAVD88, Sept. 15, 2009; lowest, 0.8 ft below NAVD88, Feb. 23, 2009.

**WATER SURFACE ELEVATION IN FEET NAVD 1988  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Date   | Water level | Date   | Water level |
|--------|-------------|--------|-------------|
| Oct 5  | .37         | Apr 12 | -.15        |
| Nov 15 | .39         | May 9  | .25         |
| Jan 17 | -.56        | Jul 16 | .40         |
| Feb 16 | -.20        | 16     | .40         |
| Mar 7  | -.41        | Aug 21 | .38         |

**251241080385301 Local number G 3764. USGS Observation Well near Florida City, FL.—Continued****WATER-QUALITY RECORDS**

INSTRUMENTATION.--Quarterly discrete water quality sampling.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 60,600  $\mu\text{S}/\text{cm}$  @ 25°C , May 26, 27, 2005 and June 1, 2005; minimum recorded, 12,200  $\mu\text{S}/\text{cm}$  @ 25°C, Dec. 18, 2010.

SPECIFIC CONDUCTANCE: Highest measured specific conductance, 44,600  $\mu\text{S}/\text{cm}$  @ 25°C , Jan. 17, 2012; lowest, 33,000  $\mu\text{S}/\text{cm}$  @ 25°C , Mar. 7, 2012.

WATER TEMPERATURE: Maximum recorded, 29.54°C, Aug. 8-12, 2011; minimum recorded, 19.9°C, Jan. 11, 2010.

WATER TEMPERATURE: Highest measured temperature, 28.3°C, Oct. 5, 2011; lowest, 23.4°C, Feb. 16, 2012.

**WATER-QUALITY DATA****WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

[°C, degrees Celsius;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; --, no data]

| <b>Date</b>              | <b>Sample start time</b> | <b>Salinity, water, unfiltered, parts per thousand (00480)</b> | <b>Specific conductance, water, unfiltered, <math>\mu\text{S}/\text{cm}</math> at 25°C (00095)</b> | <b>Temperature, water, °C (00010)</b> |
|--------------------------|--------------------------|--|--|---------------------------------------|
| <b>October 5, 2011</b>   | <b>1145</b>              | 27.1   | 42,400   | 28.3                                  |
| <b>November 15, 2011</b> | <b>1250</b>              | --   | 40,000   | 26.1                                  |
| <b>January 17, 2012</b>  | <b>1256</b>              | 28.8   | 44,600   | 24.0                                  |
| <b>February 16, 2012</b> | <b>1400</b>              | 20.9   | 33,300   | 23.4                                  |
| <b>March 7, 2012</b>     | <b>1131</b>              | 20.7   | 33,000   | 23.9                                  |
| <b>April 12, 2012</b>    | <b>1205</b>              | 30.5   | 47,000   | 26.1                                  |
| <b>May 9, 2012</b>       | <b>1334</b>              | 22.7   | 36,000   | 26.8                                  |
| <b>July 16, 2012</b>     | <b>1316</b>              | 25.8   | 40,400   | 27.7                                  |
| <b>August 21, 2012</b>   | <b>1142</b>              | 28.2   | 43,800   | 27.9                                  |