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Water-Data Report 2009

252650080252701 Local number G -3855

Biscayne aquifer
Biscayne Limestone Aquifer

Miami-Dade County, FL

LOCATION.--Lat 25°26'50.24", long 80°25'27.83" referenced to North American Datum of 1983, in NE ¼ NW ¼ NW ¼ sec.27, T.57 S., R.39 E., Miami-Dade County, FL, Hydrologic Unit 03090202, 3/4 mile west of the intersection of SW 139 Court and Palm Drive, 180 ft south of Palm Drive.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 87 ft. Upper casing diameter 2 in.; top of first opening 82 ft, bottom of last opening 87 ft.

DATUM.--Land-surface datum is 6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 8.88 ft above National Geodetic Vertical Datum of 1929 (NGVD), June 15, 2009, to present. From Nov. 21, 2007, to June 15, 2009, Top of casing was 6.32 ft above NGVD. See REMARKS.

PERIOD OF RECORD.--November 2007 to current year. See REMARKS.

REVISED RECORD.-- Records of bulk conductivity were revised for the water year 2009 by removing a correction that was not needed. The correction removed was a 1.33 multiplier to bulk conductivities that had been applied to adjust for a mislabeled calibration coil. The specific coil used, however, did not require this correction. Revised bulk conductivities are approximately 75% lower than originally published for 2009.

INSTRUMENTATION.--Measurement with electronic tape. Intermittent profiles with induction logger. See REMARKS

REMARKS.--This station is used for salinity monitoring. Well was reconstructed on June 15, 2009 to raise the top of casing above land surface. Induction logs were collected intermittently. A comprehensive water quality sample was collected on Aug. 18, 2009 as part of a hydrologic investigation concerning the extent and origin of saltwater in the aquifer. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See RECORDS OF BULK CONDUCTIVITY.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 2

[Remark codes: E, estimated.]

Date	Time	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Elevation, feet above NGVD (72020)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)
Aug 18-18	1120	.2	6.7	12,500	23.9	.7	2.40	495	122	22.1	1,650	190	232

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 2
[Remark codes: E, estimated.]

Date	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Barium, water, fltrd, µg/L (01005)	Iron, water, fltrd, µg/L (01046)	Strontium, water, fltrd, µg/L (01080)	Boron, water, fltrd, µg/L (01020)	Tritium water, unfltrd pCi/L (07000)	Uranium natural water, fltrd, µg/L (22703)
Aug 18-18	12.9	3,760	E.08	4.04	175	155	110	5,880	228	53.9	2.78

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