

**260737080103302 Local number G 2901R. USGS Observation Well near Fort Lauderdale, FL.**

Biscayne aquifer  
 Biscayne Limestone Aquifer  
 Broward County, FL

LOCATION.--Lat 26°07'39.3", long 80°10'32.3" referenced to North American Datum of 1983, in NW ¼ SE ¼ sec.5, T.50 S., R.42 E., Broward County, FL, Hydrologic Unit 03090202, 167 ft east of the west parking lot in Reverend Samuel Delevoe Park, southeast of the intersection of Sistrunk Boulevard and NW 27th Avenue. (Corrected).

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in., depth 205 ft, cased to 195 ft, screened 195 to 205 ft.

DATUM.--Land-surface datum is 4.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.45 ft above National Geodetic Vertical Datum of 1929, Feb. 10, 2003, to present.

PERIOD OF RECORD.--May 2003 to current year.

INSTRUMENTATION.--Quarterly measurement by electronic tape. Annual profile by induction logger. See REMARKS.

REMARKS.--G-2901R replaces G-2901, which had a separated casing and was 110 ft south-southwest of G-2901R. Because G-2901R can not be purged sufficiently for chloride-concentration sampling, salinity sampling was discontinued in January 2004. Induction logging started in May 2003. Induction logs are used to assess the movement of the fresh-water/salt-water interface in ground water. See [RECORDS OF BULK CONDUCTIVITY](#). Metal well centralizers were installed during well construction. Because metal objects in or near a well interfere with probe operation, the depth intervals near the centralizers have been removed from the induction log plots.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.77 ft NGVD, Nov. 15, 2005; lowest, 1.09 ft NGVD, May 2, 2003.

**WATER-QUALITY DATA  
 WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Time</b>	<b>Elevation, feet above NGVD (72020)</b>
<b>Nov 07...</b>	0944	2.30
<b>Jan 10...</b>	1148	1.55
<b>May 01...</b>	0830	1.27
<b>Jun 21...</b>	0841	2.72
<b>Aug 02...</b>	1128	2.68

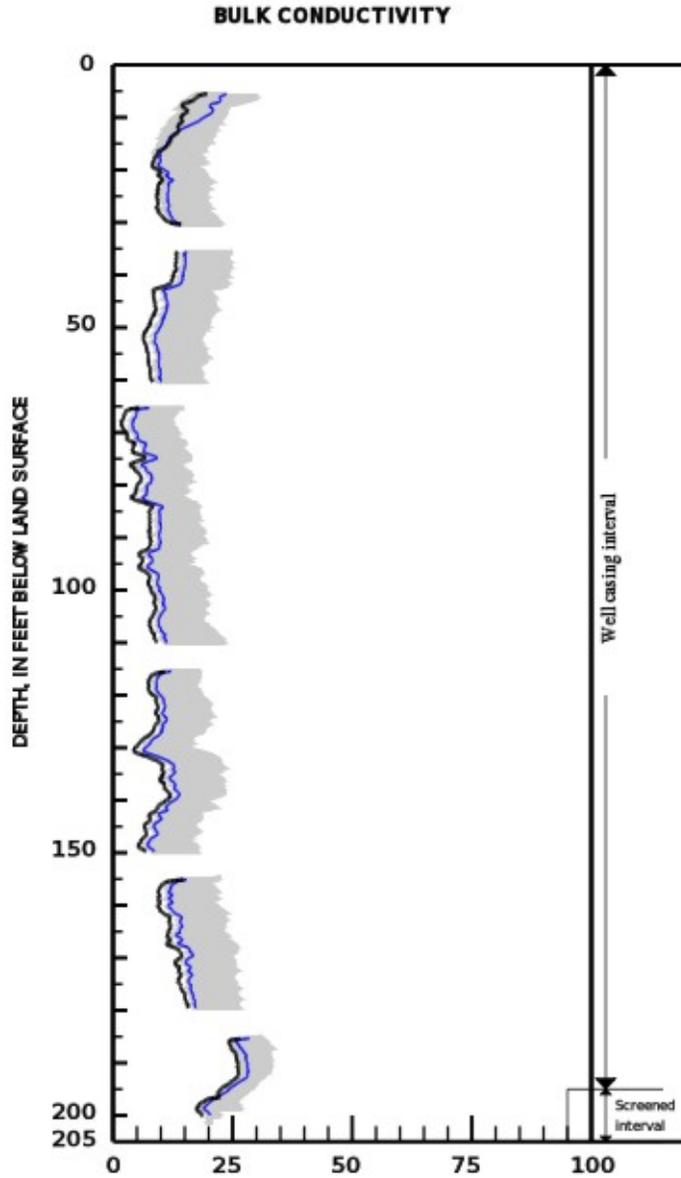
**260737080103302 Local number G 2901R. USGS Observation Well near Fort Lauderdale, FL.—Continued****Lithologic log, USGS 260737080103301. Local Number G -2901R**

<b>Depth interval feet below land surface</b>	<b>Lithologic description</b>
<b>0 - 10</b>	Quartz sand, tan to black, fine to very fine grained, grains are frosted and sub-angular to rounded; organic matter and concretions
<b>10 - 15</b>	Sandy carbonate mud with shell fragments
<b>15 - 25</b>	Quartz sand, tan, well sorted, fine to very fine grained, grains are frosted and sub-angular to sub-rounded, with carbonate mud and shell fragments
<b>25 - 40</b>	Quartz sand, tan, well sorted, fine to very fine grained, grains are frosted and sub-angular to sub-rounded
<b>40 - 60</b>	Quartz sand, white, well sorted, very fine grained, grains are sub-angular, with some heavy minerals near the bottom of the interval
<b>60 - 90</b>	Sandy fossiliferous limestone, tan to white, cemented with calcite, with concretions and heavy minerals; quartz sand with shell fragments and heavy minerals near the bottom of the interval
<b>90 - 100</b>	Quartz sand, very fine grained, grains are sub-angular, with concretions, shell fragments and heavy minerals
<b>100 - 115</b>	Quartz sand, tan, very fine grained, grains are clear and sub-angular, with shell fragments and heavy minerals; fossiliferous quartz sand with concretions, calcite cement, with shell fragments, and heavy minerals
<b>115 - 125</b>	Quartz sand, tan, very fine grained, grains are clear and sub-angular, with shell fragments and heavy minerals; sandy limestone with concretions and shell fragments
<b>125 - 130</b>	Limestone, white, fine grained, calcite cement, with concretions
<b>130 - 135</b>	Sandy limestone, white to tan, calcite cement, with concretions, shell fragments, and heavy minerals
<b>135 - 160</b>	Quartz sand, white to tan, very fine grained, grains are sub-angular, with shell fragments and heavy minerals; sandy limestone concretions with shell fragments, and heavy minerals
<b>160 - 165</b>	Quartz sand, tan to grey, very fine grained, grains are sub-angular, with shell fragments and heavy minerals; sand concretions, shell fragments, and heavy minerals
<b>165 - 175</b>	Quartz sand, tan, well sorted, very fine grained, grains are sub-angular, with heavy minerals and shell fragments
<b>175 - 190</b>	Quartz sand, tan to grey, fine to very fine grained, grains are sub-angular to sub-rounded, with concretions, shell fragments, heavy minerals, and concretions near the top of the interval
<b>190 - 205</b>	Quartz sand, tan to gray, very fine grained, grains are sub-rounded, with heavy minerals and shell fragments with concretions, shell fragments, and heavy minerals

Compiled and modified from the original lithologic description by Hydrologic Associates USA Inc., Miami, FL of well G-2901 which is 110 ft south-southwest of G-2901R.



**WY 2007 Induction log results**  
**Station: USGS 263633080031401**  
**Local name: G -2901R**



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

Induction log date	Chloride sample date	Dissolved chloride concentration, in mg/L
June 21, 2007	- no sample -	--
May 11, 2006	- no sample -	--
May 2, 2005	- no sample -	--
April 28, 2004	- no sample -	--
May 6, 2003	- no sample -	--

**BULK CONDUCTIVITY, IN MILLISIEMENS PER METER**

**EXPLANATION**

Bulk conductivity, in millisiemens per meter, May 11, 2006, June 21 2007.

Shaded area represents range in bulk conductivity logs collected from May 6, 2003, through May 11, 2006.

Delimits the interval for which the well is open to the aquifer