



Water-Data Report 2007

**353157080525302 Local number IR-149, DENR Langtree Research Station MW-3I (Transition zone well)**

Piedmont and Blue Ridge crystalline-rock aquifers

Saprolite

Iredell County, NC

LOCATION.--Lat 35°31'57", long 80°52'53" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .5 mi north of Langtree Road at Davidson College Lake Campus. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Drilled observation well, depth 73 ft, diameter 4 in., cased to 43 ft, screened interval from 43 to 73 ft, native fill from 10 to 73 ft.

DATUM.--Land-surface datum is 762.92 ft above National Geodetic Vertical Datum of 1929 (levels by NCDENR). Measuring point: top of PVC casing, well is flush mounted, 0.26 ft below land-surface datum, February 23, 2001, to present.

PERIOD OF RECORD.--February 2001 to current year.

GAGE.--Measured periodically with steel and electric tape. (by NCDENR, Division of Water Quality, and USGS)

REMARKS.--Well is part of Piedmont/Mountains ground-water study. Possible well construction problems. Monitored zone may be connected to overlying regolith.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.08 ft below land-surface datum, March 27, 2003; lowest water level measured 10.13 ft below land surface datum, January 17, 2002.

**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM**

Date	Water level	Date	Water level
Apr 13, 2007	7.25	Aug 16, 2007	8.86
May 14	6.33	Sep 14	10.04
Jun 19	7.08		

Highest: 6.33 May 14, 2007

Lowest: 10.04 Sep 14, 2007

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