



Water-Data Report 2009

353141080524703 Local number IR-147, NCDENR LANGTREE RESEARCH STATION MW-1D NEAR DAVIDSON, NC (Bedrock)

Piedmont and Blue Ridge crystalline-rock aquifers
Intermediate Metagneous Rock

Iredell County, NC

LOCATION.--Lat 35°31'41", long 80°52'47" referenced to North American Datum of 1983, Iredell County, NC, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .2 mi north of Langtree Road at Davidson College Lake Campus. Owner: NCDENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Drilled observation well, depth 602 ft, diameter 6.25 in., steel cased to 55 ft, initially open hole from 55 ft to 602 ft. Well modified in December 2001, 4 in. PVC liner installed to 76 ft, open hole from 76 ft to 602 ft.

DATUM.--Land-surface datum is 812.51 ft above NGVD of 1929 (levels by NCDENR). Measuring point: top of 4 in. PVC liner, 2.16 ft above land-surface datum.

PERIOD OF RECORD.--January 2001 to September 2009 (discontinued). Continuous record July 2002.

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

REMARKS.--Well is part of Piedmont/Mountains groundwater study.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.48 ft below land-surface datum, June 19, 2001; lowest water level recorded, 50.54 ft below land-surface datum, July 23, 2002.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

| Date | Water level | Date | Water level |
|--------------|-------------|--------------|-------------|
| Nov 18, 2008 | 48.09 | Apr 14, 2009 | 45.12 |
| Dec 9 | 47.60 | Jun 1 | 44.48 |
| Jan 13, 2009 | 46.78 | Jul 6 | 45.94 |
| Feb 25 | 46.85 | Aug 24 | 46.38 |
| Mar 30 | 45.13 | | |

Highest: 44.48 Jun 01, 2009

Lowest: 48.09 Nov 18, 2008

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