

IREDELL COUNTY--Continued

353157080525302. County number, IR-149; DENR Langtree Research Station MW-3I (Transition zone well).

LOCATION.--Lat 35°31'57.13", long 80°52'53.34", North American Datum of 1983, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .5 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Transition zone (weathered and competent quartz diorite).

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.

INSTRUMENTATION.--Measured periodically with steel and electric tape. (by DENR and USGS)

DATUM.--Land surface datum is 762.45 ft above NGVD of 1929, (levels by DENR). Measuring point: Top of 4 in. PVC casing, 0.29 ft below land surface datum.

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

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.75 ft below land-surface datum, Apr. 24, 2002; lowest water level measured 10.16 ft below land surface datum, Jan. 17, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	8.30	JAN 17	10.16	APR 24	4.75	JUL 11	7.42	SEP 17	9.90
NOV 14	9.72	FEB 21	7.47	MAY 15	4.91	AUG 13	9.00		
DEC 12	10.13	MAR 22	5.73	JUN 12	5.54	26	9.40		

