

QUALITY OF GROUND WATER

Ground-water-quality data were collected during August 2001 for the ongoing Piedmont/Mountains ground-water study in cooperation with the North Carolina Department of Environment and Natural Resources, Division of Water Quality, Groundwater Section. Wake county well locations are presented in figure 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM ABOVE NGVD (72000)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)
WK-277	354356078403501	08-27-01	1130	110SPRL	20	330	--	--	18.9	24.5
WK-278	354356078403502	08-27-01	1530	110SPRL	41.5	330	5.4	125	17.9	27.6
WK-279	354356078403503	08-27-01	1345	310FCMG	302	330	6.0	678	17.3	167

LOCAL IDENTIFIER	DATE	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	BROMIDE SOLVED (MG/L AS BR) (71870)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
WK-277	08-27-01	6.14	2.23	3.91	12.7	28	.05	7.8	<.2	26.5	.8
WK-278	08-27-01	7.92	1.90	3.20	11.3	18	.03	8.1	<.2	28.7	1.1
WK-279	08-27-01	50.1	10.1	16.8	27.7	205	.27	58.4	.3	18.8	37.0

LOCAL IDENTIFIER	DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	RADON 222 TOTAL (PCI/L) (82303)	ALPHA RADIO. DISS WATER TH-230 AS (PCI/L) (04126)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
WK-277	08-27-01	108	E.030	E5.65	<2.0	<13	<10	653	5090	1.25	6.33
WK-278	08-27-01	114	E.053	E6.72	<2.0	<13	<10	250	12000	1.44	7.15
WK-279	08-27-01	318	E21.9	E2.96	<2.0	16	<10	3360	5360	79.9	46.1

Remark Codes Used in This report:
 < -- Less than
 E -- Estimated value