MISCELLANEOUS STATION ANALYSES

Ground-water-quality data presented in these tables were collected from the following sites in Wake County during the 2004 water year 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. Well locations for these sites listed in the following table are shown in figure 6.

MISCELLANEOUS STATION ANALYSES

Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)
354356078403504 WK-279A LAKE WHEELER RS MW-1DUZ (LAT 35 43 56N LONG 078 40 34W)													
DEC 2003													
03...	1120	.7	6.4	686	15.5	120	30.0	11.6	23.8	24.8	231	.16	46.5
354356078403505 WK-279B LAKE WHEELER RS MW-1DLZ (LAT 35 43 56N LONG 078 40 34W)													
DEC 2003													
09...	1635	.1	7.8	695	17.3	300	114	4.23	1.06	27.1	63	.05	10.0
354359078403101 WK-280 LAKE WHEELER MW-2S (REGOLITH WELL) (LAT 35 44 00N LONG 078 40 31W)													
JAN 2004													
13...	1345	6.7	5.4	273	18.0	66	18.7	4.79	2.92	18.0	12	.03	15.4
354359078403103 WK-282 LAKE WHEELER RS MW-2T (TRANSITION ZONE WELL (LAT 35 43 59N LONG 078 40 32W)													
JAN 2004													
13...	1120	5.4	6.1	223	17.2	60	17.2	4.23	3.31	13.6	57	.03	13.0
354404078403101 WK-284 LAKE WHEELER RS MW-3S (REGOLITH WELL) (LAT 35 44 04N LONG 078 40 31W)													
DEC 2003													
22...	1000	7.3	5.3	110	17.1	15	1.42	2.67	2.09	11.7	2	.04	12.3
354404078403102 WK-285 LAKE WHEELER RS MW-3I (TRANSITION ZONE WELL (LAT 35 44 05N LONG 078 40 31W)													
DEC 2003													
19...	1045	7.1	6.4	64	16.9	15	4.11	1.20	1.96	7.42	19	.03	3.71
354404078403103 WK-286 LAKE WHEELER RS MW-3D (BEDROCK WELL) (LAT 35 44 05N LONG 078 40 31W)													
DEC 2003													
11...	1615	5.9	7.6	154	17.2	55	18.5	2.05	2.62	11.0	62	.02	3.30
15...	1345	.9	8.5	180	17.2	67	23.6	1.96	2.78	12.9	66	.03	3.26
354401078403401 WK-287 LAKE WHEELER RS PW-1 (LAT 35 44 01N LONG 078 40 34W)													
JAN 2004													
07...	1225	5.2	6.8	138	16.7	37	11.4	2.11	2.14	10.4	39	.03	6.21
08...	1300	M	8.3	192	14.9	76	24.8	3.29	2.19	10.1	85	.02	2.83

MISCELLANEOUS STATION ANALYSES—Continued

Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
354356078403504 WK-279A LAKE WHEELER RS MW-1DUZ (LAT 35 43 56N LONG 078 40 34W)											
DEC 2003											
03...	20.2	19.1	274	27.1	4.79	.023	.008	<2	E6.4	209	3,510
354356078403505 WK-279B LAKE WHEELER RS MW-1DLZ (LAT 35 43 56N LONG 078 40 34W)											
DEC 2003											
09...	21.1	261	495	E.03	<.06	<.008	<.006	<2	59	13	48.4
354359078403101 WK-280 LAKE WHEELER MW-2S (REGOLITH WELL) (LAT 35 44 00N LONG 078 40 31W)											
JAN 2004											
13...	18.1	E.1	185	<.04	23.8	<.008	<.006	<2	<7.0	E4	17.7
354359078403103 WK-282 LAKE WHEELER RS MW-2T (TRANSITION ZONE WELL (LAT 35 43 59N LONG 078 40 32W)											
JAN 2004											
13...	30.3	.4	165	<.04	15.1	<.008	.035	<2	<7.0	<6	6.3
354404078403101 WK-284 LAKE WHEELER RS MW-3S (REGOLITH WELL) (LAT 35 44 04N LONG 078 40 31W)											
DEC 2003											
22...	9.72	.4	64	<.04	5.60	<.008	<.006	<2	E5.2	<6	35.5
354404078403102 WK-285 LAKE WHEELER RS MW-3I (TRANSITION ZONE WELL (LAT 35 44 05N LONG 078 40 31W)											
DEC 2003											
19...	26.9	2.0	32	<.04	2.23	<.008	.022	<2	E5.5	<6	24.3
354404078403103 WK-286 LAKE WHEELER RS MW-3D (BEDROCK WELL) (LAT 35 44 05N LONG 078 40 31W)											
DEC 2003											
11...	33.8	5.4	120	<.04	1.65	<.008	.054	E1	11	7	1.2
15...	30.4	13.9	131	<.04	1.28	.137	.025	E1	13	E6	4.5
354401078403401 WK-287 LAKE WHEELER RS PW-1 (LAT 35 44 01N LONG 078 40 34W)											
JAN 2004											
07...	34.1	1.6	107	<.04	4.32	<.008	.026	<2	E5.1	41	25.7
08...	27.1	6.5	122	<.04	<.06	<.008	<.007	<2	12	65	88.5

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

MISCELLANEOUS STATION ANALYSES

Ground-water-quality data presented in these tables were collected from the following sites in Rockingham County during the 2004 water year 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. Well locations for these sites listed in the following table are shown in figure 6.

Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)
362334079421601 RK-227 UPPER PIEDMONT RS MW-N1S (LAT 36 23 35N LONG 079 42 17W)													
APR 2004													
07...	1135	.6	6.0	121	14.5	53	9.46	7.16	.86	4.60	38	E.01	3.57
362334079421602 RK-228 UPPER PIEDMONT RS MW-N1I (LAT 36 23 35N LONG 079 42 17W)													
APR 2004													
21...	1510	2.4	6.5	215	16.5	65	14.2	7.20	1.54	19.4	84	.04	9.45
362334079421603 RK-229 UPPER PIEDMONT RS MW-N1D (LAT 36 23 35N LONG 079 42 17W)													
APR 2004													
19...	1730	.1	8.1	251	17.7	95	29.2	5.35	.80	17.8	121	.02	3.21
20...	1055	.1	8.1	250	16.0	94	28.9	5.30	.80	17.8	115	.02	3.60
362331079421601 RK-230 UPPER PIEDMONT RS MW-N2S (LAT 36 23 32N LONG 079 42 17W)													
APR 2004													
06...	1720	.1	5.9	80	11.7	21	4.96	2.09	2.82	5.60	20	.03	4.54
362331079421602 RK-231 UPPER PIEDMONT RS MW-N2I (LAT 36 23 32N LONG 079 42 16W)													
APR 2004													
06...	1505	.6	6.7	185	14.3	82	20.1	7.67	1.76	7.46	88	.02	4.16
362331079421603 RK-232 UPPER PIEDMONT RS MW-N2D (LAT 36 23 32N LONG 079 42 17W)													
MAR 2004													
29...	1720	.2	6.9	241	14.3	110	29.1	8.17	1.84	7.86	111	.05	4.86
30...	1045	.1	7.8	218	13.7	82	26.3	3.95	.92	15.8	94	E.01	2.47
30...	1340	M	7.4	277	14.2	110	35.2	5.99	1.50	12.5	131	.05	3.67
362328079421701 RK-233 UPPER PIEDMONT RS MW-N3I (LAT 36 23 28N LONG 079 42 17W)													
APR 2004													
29...	0905	1.6	6.6	462	13.1	120	25.1	14.1	4.98	28.8	143	.07	7.83
362328079421702 RK-234 UPPER PIEDMONT RS MW-N3D (LAT 36 23 28N LONG 079 42 17W)													
APR 2004													
28...	1630	M	7.9	198	15.0	80	23.0	5.44	1.98	9.43	84	.03	3.04
362323079421201 RK-235 UPPER PIEDMONT RS MW-N4I (LAT 36 23 23N LONG 079 42 13W)													
APR 2004													
15...	1355	9.2	5.5	161	16.7	41	9.04	4.59	4.95	7.49	7	.03	12.0
362323079421202 RK-236 UPPER PIEDMONT RS MW-N4D (LAT 36 23 23N LONG 079 42 13W)													
MAR 2004													
24...	1305	5.6	6.3	178	16.1	43	7.11	6.18	.79	15.1	30	.07	11.7
362240079411801 RK-237 UPPER PIEDMONT RS MW-S1I (LAT 36 22 41N LONG 079 41 19W)													
FEB 2004													
25...	1045	7.7	5.9	183	16.2	51	12.2	5.01	1.63	12.5	17	.02	10.5
362240079411802 RK-238 UPPER PIEDMONT RS MW-S1D (LAT 36 22 41N LONG 079 41 19W)													
MAR 2004													
23...	1330	.1	7.9	311	15.8	120	32.7	9.52	4.44	13.7	84	.07	24.8

MISCELLANEOUS STATION ANALYSES—Continued

Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
362334079421601 RK-227 UPPER PIEDMONT RS MW-N1S (LAT 36 23 35N LONG 079 42 17W)											
APR 2004											
07...	28.9	14.9	101	<.04	.06	<.008	.015	<2	<7.0	20	22.4
362334079421602 RK-228 UPPER PIEDMONT RS MW-N1I (LAT 36 23 35N LONG 079 42 17W)											
APR 2004											
21...	36.4	4.0	151	<.04	2.15	E.007	.033	<2	E4.8	E4	47.3
362334079421603 RK-229 UPPER PIEDMONT RS MW-N1D (LAT 36 23 35N LONG 079 42 17W)											
APR 2004											
19...	21.0	6.3	157	<.04	<.06	<.008	E.003	18	11	11	16.7
20...	20.9	6.3	152	<.04	<.06	.008	<.006	24	12	E5	9.6
362331079421601 RK-230 UPPER PIEDMONT RS MW-N2S (LAT 36 23 32N LONG 079 42 17W)											
APR 2004											
06...	18.0	8.7	62	<.04	E.04	<.008	<.006	<2	8.8	1,460	228
362331079421602 RK-231 UPPER PIEDMONT RS MW-N2I (LAT 36 23 32N LONG 079 42 16W)											
APR 2004											
06...	31.3	2.3	130	<.04	.07	<.008	.010	E1	<7.0	E4	1.2
362331079421603 RK-232 UPPER PIEDMONT RS MW-N2D (LAT 36 23 32N LONG 079 42 17W)											
MAR 2004											
29...	27.1	4.0	162	E.03	<.06	<.008	<.006	<2	E4.3	211	656
30...	18.1	7.8	146	<.04	<.06	<.008	<.006	4	12	66	298
30...	23.0	4.3	173	<.04	<.06	<.008	<.006	4	9.9	442	644
362328079421701 RK-233 UPPER PIEDMONT RS MW-N3I (LAT 36 23 28N LONG 079 42 17W)											
APR 2004											
29...	24.7	35.3	259	1.25	.28	.037	<.006	<2	28	4,080	2,760
362328079421702 RK-234 UPPER PIEDMONT RS MW-N3D (LAT 36 23 28N LONG 079 42 17W)											
APR 2004											
28...	28.1	9.3	136	<.04	E.04	<.008	<.006	8	E4.0	<6	153
362323079421201 RK-235 UPPER PIEDMONT RS MW-N4I (LAT 36 23 23N LONG 079 42 13W)											
APR 2004											
15...	28.0	11.1	134	<.04	8.00	<.008	<.006	<2	E7.0	9	199
362323079421202 RK-236 UPPER PIEDMONT RS MW-N4D (LAT 36 23 23N LONG 079 42 13W)											
MAR 2004											
24...	41.7	4.7	152	<.04	7.79	<.008	E.005	<2	<7.0	8	8.8
362240079411801 RK-237 UPPER PIEDMONT RS MW-S1I (LAT 36 22 41N LONG 079 41 19W)											
FEB 2004											
25...	32.7	16.1	143	<.04	8.04	<.008	<.006	<2	E6.0	10	20.6
362240079411802 RK-238 UPPER PIEDMONT RS MW-S1D (LAT 36 22 41N LONG 079 41 19W)											
MAR 2004											
23...	28.0	20.4	201	<.04	E.04	<.008	<.006	<2	9.8	76	230

MISCELLANEOUS STATION ANALYSES—Continued

Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)
362231079410801 RK-239 UPPER PIEDMONT RS MW-S3S (LAT 36 22 31N LONG 079 41 08W)													
FEB 2004													
25...	1455	6.6	5.8	145	15.4	25	6.50	2.07	2.24	18.3	18	.02	7.37
362231079310803 RK-241 UPPER PIEDMONT RS MW-S3LI (LAT 36 22 32N LONG 079 41 08W)													
MAR 2004													
10...	1600	7.5	6.2	127	15.7	27	6.79	2.53	1.22	13.1	22	.02	5.98
362231079310804 RK-242 UPPER PIEDMONT RS MW-S3D (LAT 36 22 32N LONG 079 41 08W)													
MAR 2004													
11...	1615	7.0	6.5	159	16.0	45	10.7	4.52	.88	13.0	31	.02	5.69
15...	1510	2.8	7.0	227	15.9	77	21.6	5.61	.78	11.8	70	.03	5.96
16...	1545	.6	7.6	260	15.5	99	30.8	5.44	1.17	12.3	86	.02	5.75
17...	1140	.3	7.7	258	15.6	97	30.1	5.28	1.20	12.6	85	.02	5.44

Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
362231079410801 RK-239 UPPER PIEDMONT RS MW-S3S (LAT 36 22 31N LONG 079 41 08W)											
FEB 2004											
25...	38.0	1.2	127	<.04	8.75	<.008	E.003	<2	8.3	<6	4.3
362231079310803 RK-241 UPPER PIEDMONT RS MW-S3LI (LAT 36 22 32N LONG 079 41 08W)											
MAR 2004											
10...	43.9	.2	122	<.04	7.83	<.008	.019	<2	E5.0	21	45.6
362231079310804 RK-242 UPPER PIEDMONT RS MW-S3D (LAT 36 22 32N LONG 079 41 08W)											
MAR 2004											
11...	44.5	1.4	142	<.04	9.46	<.008	.041	<2	<7.0	9	1.1
15...	36.1	4.8	174	<.04	8.17	.067	.013	<2	E3.5	13	16.9
16...	33.9	3.5	187	<.04	8.16	.373	.007	<2	E3.7	11	24.9
17...	32.8	3.7	180	<.04	7.71	.785	.007	<2	E4.5	9	18.5

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified