132 GROUND-WATER LEVELS

#### IREDELL COUNTY

353135080524201. County number, IR-130; DENR Langtree Research Station MW-2 (Regolith well).

LOCATION.--Lat 35°31'35.47", long 80°52'42.23" (revised), North American Datum of 1983, Hydrologic Unit 03050101, 2.5 mi northwest of Davidson, .1 mi north of Langtree Road at Davidson College Lake Campus. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

WATER-LEVEL RECORDS

AQUIFER.--Regolith (saprolitic quartz diorite).

WELL CHARACTERISTICS.--Drilled observation well, depth 28 ft, diameter 4 in., cased to 13 ft, screened interval from 13 ft to 28 ft, sand filter packed from 10 ft to 28 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 802.48 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelter floor, 1.34 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains ground-water project.

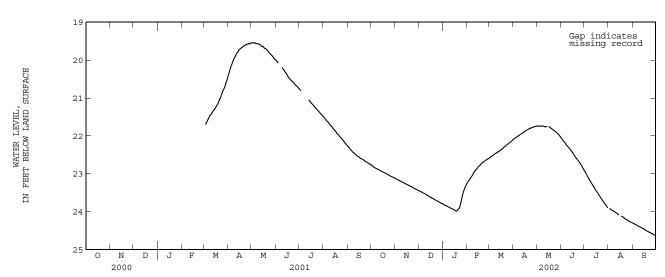
PERIOD OF RECORD. -- March 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 19.54 ft below land-surface datum, Apr. 30, May 1-5, 2001; lowest water level recorded 24.64 ft below land-surface datum, Sept. 30, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

					DAIL	Y MEAN VA	LUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	22.77 22.79 22.80 22.82 22.83	23.12 23.14 23.15 23.16 23.17	23.44 23.46 23.47 23.48 23.49	23.80 23.82 23.83 23.84 23.84	23.24 23.20 23.17 23.14 23.12	22.59 22.57 22.55 22.54 22.53	22.09 22.07 22.06 22.05 22.03	21.74 21.73 21.74 21.74 21.74	22.05 22.07 22.11 22.13 22.16	22.93 22.96 23.00 23.03 23.07	23.91 23.93 23.94 23.96	24.30 24.31 24.33 24.34 24.35
6 7 8 9 10	22.84 22.86 22.87 22.87 22.89	23.18 23.19 23.20 23.21 23.22	23.50 23.51 23.52 23.53 23.54	23.85 23.87 23.88 23.89 23.90	23.08 23.06 23.02 22.98 22.94	22.51 22.50 22.48 22.46 22.45	22.02 22.00 21.99 21.97 21.96	21.74 21.73 21.74 21.74 21.75	22.18 22.21 22.25 22.27 22.29	23.11 23.15 23.18 23.22 23.25	23.97 23.98 24.00 24.01 24.02	24.36 24.37 24.38 24.39 24.40
11 12 13 14 15	22.90 22.91 22.92 22.93 22.94	23.23 23.24 23.25 23.27 23.27	23.56 23.57 23.58 23.59 23.61	23.91 23.92 23.93 23.94 23.95	22.92 22.89 22.87 22.85 22.81	22.44 22.43 22.41 22.40 22.38	21.95 21.93 21.92 21.90 21.89	21.76 21.76 21.75 21.76	22.31 22.34 22.36 22.39 22.42	23.29 23.32 23.35 23.39 23.42	24.04 24.05 24.07 24.09	24.41 24.42 24.44 24.45 24.46
16 17 18 19 20	22.95 22.96 22.97 22.99 22.99	23.28 23.30 23.30 23.31 23.33	23.63 23.63 23.65 23.65 23.67	23.96 23.97 23.98 23.98 23.95	22.79 22.78 22.76 22.73 22.71	22.37 22.36 22.33 22.32 22.29	21.87 21.86 21.85 21.84 21.83	21.77 21.76 21.78 21.80 21.81	22.45 22.48 22.52 22.54 22.58	23.45 23.48 23.51 23.55 23.58	24.12 24.13 24.14 24.15	24.47 24.49 24.50 24.51 24.52
21 22 23 24 25	23.01 23.02 23.03 23.04 23.06	23.34 23.35 23.36 23.37 23.38	23.68 23.69 23.70 23.71 23.72	23.92 23.90 23.82 23.73 23.64	22.70 22.68 22.66 22.65 22.63	22.28 22.27 22.24 22.23 22.21	21.81 21.80 21.80 21.79 21.78	21.83 21.84 21.85 21.87 21.89	22.60 22.63 22.66 22.69 22.72	23.61 23.64 23.67 23.70 23.74	24.17 24.19 24.20 24.21 24.22	24.53 24.54 24.55 24.57 24.58
26 27 28 29 30 31	23.06 23.07 23.08 23.09 23.11 23.11	23.39 23.40 23.41 23.42 23.44	23.73 23.75 23.76 23.77 23.78 23.79	23.55 23.48 23.41 23.36 23.32 23.28	22.62 22.61 22.60 	22.19 22.18 22.17 22.15 22.13 22.11	21.78 21.76 21.75 21.75 21.75	21.91 21.93 21.95 21.97 22.00 22.02	22.74 22.77 22.81 22.85 22.89	23.76 23.79 23.82 23.84 23.88 23.90	24.24 24.26 24.26 24.27 24.28 24.29	24.59 24.60 24.61 24.62 24.63

WTR YR 2002 MEAN 23.08 HIGH 21.73 LOW 24.63



133 IREDELL COUNTY--Continued

# 353135080524201 IR-130 DENR Langtree Research Station MW-2 (Regolith well)--Continued WATER-QUALITY RECORDS

PERIOD OF RECORD. -- August to September 2002.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: August to September 2002.

pH: August to September 2002.

WATER TEMPERATURE: August to September 2002.

DISSOLVED OXYGEN: August to September 2002.

DISSOLVED OXYGEN, PERCENT SATURATION: August to September 2002.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from August to September 2002.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Water Resources Division as part of the Piedmont/Mountains ground-water project. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR CURRENT YEAR. --

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	81, August 1, 4, 5, 6, 7	75, August 23, 24
pH, standard units	6.3, August 2-9, 13, September 3, 4, 16, 17	6.0, August 23-26, 28
WATER TEMPERATURE, °C	16.5, August 1	16.3, August 1 - September 30
DISSOLVED OXYGEN, mg/L	7.4, August 26, 28	6.8, August 31, September 1
DISSOLVED OXYGEN, PERCENT SATURATION,%	78, August 26, 28	71, August 31, September 1

		SPECIFIC	CONDUCTANCE	(MICE		AT 25 MEAN VA		OR PERIO	D AUGUST 1	O SEPTEME	BER 2002	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												78
2											80	79
3											80	79
4											80	79
5											81	79
6											81	79
7											80	79
8											80	79
9											79	79
10											79	79
11											78	79
12											78	79
13											78	79
14											78	79
15											78	79
16											78	79
17											76	79
18											76	79
19											76	79
20											76	79
21											76	79
22											76	79
23											76	79
24											76	79
25											76	79
26												79
27												79
28												78
29											78	78
30											78	78
31											78	
MEAN												79
MAX												79
MIN												78

353135080524201 IR-130 DENR Langtree Research Station MW-2 (Regolith well) -- Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, FOR PERIOD AUGUST TO SEPTEMBER 2002

		FN, WAI	Dit, MIODE,	IIDDD, C	DAILY	MEAN VAL		100001 10				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2											6.3	6.2 6.2
3											6.3	6.2
4											6.2	6.2
5											6.2	6.2
6											6.3	6.2
7 8											6.3 6.3	6.2 6.2
9											6.2	6.2
10											6.2	6.2
11											6.2	6.2
12											6.2	6.2
13 14											6.2 6.2	6.2 6.2
15											6.2	6.2
16 17											6.2 6.2	6.3 6.3
18											6.2	6.2
19											6.1	6.2
20											6.1	6.2
21											6.1	6.2
22											6.1	6.2
23 24											6.1 6.0	6.2 6.2
25											6.0	6.2
26												6.2
27												6.2
28												6.2
29 30											6.2 6.2	6.2 6.2
31											6.2	
MEAN												6.2
MEAN MAX												6.2 6.3
MIN												6.2
		WATER T	EMPERATURE	, DEGREES	CELSIUS,	FOR PERI	OD AUGUST	TO SEPTE	MBER 2002	2		
		WATER T	EMPERATURE	, DEGREES		FOR PERI		TO SEPTE	MBER 2002	2		
DAY	OCT	WATER T	EMPERATURE DEC	, DEGREES				TO SEPTE	MBER 2002 JUN	JUL	AUG	SEP
		NOV	DEC	JAN	DAILY	MEAN VAI	JUES APR	MAY	JUN	JUL		
DAY 1 2	OCT				DAILY	MEAN VAI	JUES					16.3
1 2 3	 	NOV  	DEC  	JAN  	DAILY FEB  	MEAN VAI MAR 	APR	MAY  	JUN  	JUL  	16.3 16.3	16.3 16.3 16.3
1 2 3 4	  	NOV  	DEC   	JAN  	DAILY FEB  	MEAN VAI  MAR	APR	MAY  	JUN   	JUL   	16.3 16.3 16.3	16.3 16.3 16.3 16.3
1 2 3	 	NOV  	DEC  	JAN  	DAILY FEB  	MEAN VAI MAR 	APR	MAY  	JUN  	JUL  	16.3 16.3	16.3 16.3 16.3
1 2 3 4 5		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3
1 2 3 4 5		NOV	DEC	JAN   	DAILY FEB   	MEAN VAI	APR	MAY   	JUN   	JUL   	16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9	   	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9	   	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 4 5 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MEAN MAX		NOV	DEC	JAN	DAILY FEB	MEAN VAI  MAR	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3
1 2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 MEAN		NOV	DEC	JAN	DAILY FEB	MEAN VAI	APR	MAY	JUN	JUL	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3

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353135080524201 IR-130 DENR Langtree Research Station MW-2 (Regolith well)--Continued

OXYGEN DISSOLVED (MG/L), FOR PERIOD AUGUST TO SEPTEMBER 2002

		OXYGE	EN DISSOLVE	D (MG/L),		IOD AUGUS MEAN VAL		EMBER 200	2			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2											 7.1	6.9 6.9
3											7.0	6.9
4 5											7.0 7.0	6.9 6.9
6 7											7.0 7.0	6.9 6.9
8											7.0	6.9
9 10											7.0 7.0	6.9
10											7.0	6.9
11 12											7.1 7.2	6.9 7.0
13											7.2	6.9
14											7.2	6.9
15											7.2	6.9
16											7.2	6.9
17 18											7.3 7.2	7.0 7.0
19											7.2	7.0
20											7.2	7.0
21											7.2	7.0
22 23											7.2 7.3	7.0 7.0
24											7.3	7.0
25											7.3	7.0
26												7.0
27												7.1
28 29											7.2	7.0 7.0
30											7.0	7.0
31											6.8	
MEAN												7.0
MAX MIN												7.1 6.9
11111												0.5
	OX	YGEN DISS	SOLVED (% C	F SATURAT	'ION), FC	R PERIOD	AUGUST TO	) SEPTEMBE	R 2002			
	OX	YGEN DISS	GOLVED (% C	F SATURAT		R PERIOD MEAN VAL		) SEPTEMBE	R 2002			
DAY	OX OCT	YGEN DISS	SOLVED (% C	F SATURAT JAN				SEPTEMBE MAY	R 2002 JUN	JUL	AUG	SEP
DAY 1					DAILY	MEAN VAL	UES			JUL 	AUG	SEP
1 2	OCT 	NOV	DEC 	JAN 	DAILY FEB	MEAN VAL	APR	MAY 	JUN 		 75	72 72
1 2 3	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	UES APR	MAY 	JUN 		75 73	72 72 72
1 2	OCT  	NOV  	DEC  	JAN  	DAILY FEB  	MEAN VAL	APR	MAY  	JUN  	 	 75	72 72
1 2 3 4 5	OCT  	NOV  	DEC   	JAN   	DAILY FEB  	MEAN VAL	APR	MAY  	JUN   		75 73 73 73	72 72 72 72 72
1 2 3 4 5	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73	72 72 72 72 72 72 72
1 2 3 4 5 6 7 8	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73	72 72 72 72 72 72 72 72 72
1 2 3 4 5	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73	72 72 72 72 72 72 72
1 2 3 4 5 6 7 8 9	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN	   	75 73 73 73 73 73 73 73 73 73	72 72 72 72 72 72 72 72 72 72
1 2 3 4 5	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73	72 72 72 72 72 72 72 72 72 72
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN	    	75 73 73 73 73 73 73 73 73 73 73 75 76	72 72 72 72 72 72 72 72 72 72 72 72
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN	   	75 73 73 73 73 73 73 73 73 73 73 75	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 73 75 76 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 77 77 77	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 76 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 77 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 76 76 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 76 76 76 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 76 76 76 76	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 76 77 77 77	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 75 76 76 76 76 76 76 76 76 77	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 73 75 76 76 76 76 77 77 77 77 77 77 77 77	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 73 73 75 76 76 76 76 77 77 77 77 77 77 77 77 77	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 73 75 76 76 76 76 77 77 77 77 77 77 77 77 77	72 72 72 72 72 72 72 72 72 72 72 72 72 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	OCT	NOV	DEC	JAN	DAILY FEB	MEAN VAL	APR	MAY	JUN		75 73 73 73 73 73 73 73 73 73 73 73 75 76 76 76 76 77 77 77 77 77 77 77 77 77	72 72 72 72 72 72 72 72 72 72 72 72 72 7

# 353135080524201 IR-130 DENR Langtree Research Station MW-2 (Regolith well)--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD. -- August 2002.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Water Resources Division as part of the Piedmont/Mountains ground-water project.

## WATER-QUALITY DATA, AUGUST 2002

Date	Time	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	ANC BICAR- BONATE IT FIELD MG/L AS HCO3 (00450)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
AUG 28	1055	6.2	65	16.9	29	6.15	3.25	.49	3.77	25	30	E.03	2.59
Date	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
AUG 28	<.1	28.2	.3	71	<.04	<.10	1.58	<.008	.06	<2	<10	<10	<2.0
				Date		ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	RADON 222 TOTAL (PCI/L) (82303)					
				AUG 2	8	1	.2	250					

Remark codes used in this table: < -- Less than E -- Estimated value