353135080524203. County number, IR-132; DENR Langtree Research Station MW-2D (Bedrock well).

LOCATION.--Lat $35^{\circ} 31^{\prime \prime} 35.62^{\prime \prime}$, long $80^{\circ} 52^{\prime} 42.29 "$, 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.--Quartz diorite bedrock.
WELL CHARACTERISTICS.--Drilled observation well, depth 400 ft, diameter 6 in., cased to 53 ft, open hole from 53 ft to 400 ft. INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 802.27 ft above NGVD of 1929 (levels by DENR). Measuring point: Top of instrument shelter floor, 1.39 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, 21.51 ft below land-surface datum, Apr. 9, 2001 ; lowest water level recorded 29.23 ft below land-surface datum, Aug. 30, 2002.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 25.41 | 25.91 | 26.11 | 26.25 | 25.31 | 24.76 | 24.32 | 24.44 | 25.40 | 25.91 | --- | 28.78 |
| 2 | 25.47 | 25.92 | 26.23 | 26.26 | 25.30 | 24.71 | 24.30 | 24.49 | 25.39 | 26.06 | 26.93 | 28.70 |
| 3 | 25.48 | 25.93 | 26.27 | 26.27 | 25.27 | 24.67 | 24.29 | 24.55 | 25.41 | 26.22 | 26.92 | 28.66 |
| 4 | 25.61 | 25.96 | 26.20 | 26.29 | 25.26 | 24.68 | 24.29 | 24.55 | 25.46 | 26.26 | 26.80 | 28.57 |
| 5 | 25.77 | 25.98 | 26.13 | 26.30 | 25.29 | 24.67 | 24.27 | 24.57 | 25.49 | 26.23 | 26.72 | 28.37 |
| 6 | 25.71 | 26.00 | 26.08 | 26.29 | 25.28 | 24.65 | 24.25 | 24.59 | 25.52 | 26.19 | 26.84 | 28.19 |
| 7 | 25.63 | 26.01 | 26.11 | 26.30 | 25.22 | 24.64 | 24.25 | 24.61 | 25.54 | 26.22 | 26.90 | 28.07 |
| 8 | 25.59 | 26.01 | 26.07 | 26.33 | 25.16 | 24.63 | 24.25 | 24.64 | 25.53 | 26.25 | 26.89 | 28.03 |
| 9 | 25.58 | 26.02 | 26.06 | 26.33 | 25.10 | 24.63 | 24.23 | 24.68 | 25.53 | 26.27 | 26.88 | 28.05 |
| 10 | 25.56 | 26.18 | 26.07 | 26.33 | 25.08 | 24.64 | 24.21 | 24.76 | 25.56 | 26.26 | 26.86 | 28.05 |
| 11 | 25.56 | 26.27 | 26.07 | 26.33 | 25.05 | 24.63 | 24.20 | 24.85 | 25.61 | 26.24 | 26.90 | 27.96 |
| 12 | 25.58 | 26.49 | 26.07 | 26.33 | 25.03 | 24.61 | 24.18 | 24.90 | 25.64 | 26.22 | 26.98 | 27.97 |
| 13 | 25.59 | 26.27 | 26.06 | 26.34 | 25.05 | 24.58 | 24.17 | 24.93 | 25.77 | 26.31 | 26.98 | 27.89 |
| 14 | 25.61 | 26.15 | 26.10 | 26.35 | 25.04 | 24.58 | 24.17 | 24.92 | 25.88 | 26.28 | 26.91 | 27.98 |
| 15 | 25.62 | 26.09 | 26.16 | 26.36 | 24.96 | 24.58 | 24.16 | --- | 25.91 | 26.25 | 26.86 | 27.88 |
| 16 | 25.61 | 26.08 | 26.13 | 26.37 | 24.91 | 24.57 | 24.15 | 24.82 | 25.94 | 26.29 | 26.80 | 27.77 |
| 17 | 25.62 | 26.07 | 26.11 | 26.37 | 24.88 | 24.57 | 24.12 | 24.82 | 25.96 | 26.35 | 26.76 | 27.79 |
| 18 | 25.63 | 26.09 | 26.10 | 26.38 | 24.87 | 24.56 | 24.08 | 24.82 | 25.95 | 26.43 | 26.73 | 27.80 |
| 19 | 25.65 | 26.12 | 26.09 | 26.35 | 24.88 | 24.70 | 24.04 | 24.82 | 25.97 | 26.44 | 26.72 | 27.74 |
| 20 | 25.69 | 26.11 | 26.09 | 26.28 | 24.91 | 24.77 | 24.02 | 24.87 | 26.07 | 26.48 | 26.77 | 27.76 |
| 21 | 25.74 | 26.11 | 26.10 | 26.20 | 24.92 | 24.68 | 24.02 | 24.99 | 26.25 | 26.42 | 26.86 | 27.67 |
| 22 | 25.80 | 26.10 | 26.13 | 26.15 | 24.87 | 24.63 | 24.02 | 24.98 | 26.34 | 26.41 | 26.97 | 27.73 |
| 23 | 25.84 | 26.10 | 26.14 | 26.01 | 24.79 | 24.55 | 24.05 | 24.97 | 26.26 | 26.59 | 27.01 | 27.67 |
| 24 | 25.87 | 26.09 | 26.14 | 25.85 | 24.75 | 24.52 | 24.06 | 25.05 | 26.15 | 26.68 | 26.98 | 27.77 |
| 25 | 25.92 | 26.07 | 26.15 | 25.73 | 24.72 | 24.51 | 24.10 | 25.23 | 26.20 | 26.68 | 27.02 | 27.84 |
| 26 | 25.90 | 26.06 | 26.16 | 25.62 | 24.75 | 24.50 | 24.18 | 25.32 | 26.22 | 26.65 | 27.14 | 27.93 |
| 27 | 25.88 | 26.04 | 26.17 | 25.54 | 24.77 | 24.46 | 24.23 | 25.31 | 26.14 | 26.65 | 27.21 | 27.84 |
| 28 | 25.87 | 26.02 | 26.18 | 25.48 | 24.77 | 24.42 | 24.28 | 25.35 | 26.13 | 26.63 | --- | 27.56 |
| 29 | 25.87 | 26.01 | 26.21 | 25.43 | --- | 24.39 | 24.35 | 25.40 | 26.12 | 26.66 | --- | 27.28 |
| 30 | 25.88 | 26.00 | 26.23 | 25.38 | --- | 24.37 | 24.43 | 25.44 | 25.99 | 26.75 | --- | 27.20 |
| 31 | 25.89 | - | 26.24 | 25.35 | --- | 24.34 | --- | 25.44 | --- | 26.85 | 28.87 | - |

WTR YR 2002 MEAN 25.81 HIGH 24.02 LOW 28.87


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 | 90, August 1-5 | 83, August 28-31, September 1-2 |
| pH, standard units | 7.2, August 31, September 1, 2, 9-11 | 6.9, August 1, 18-26, 28 |
| WATER TEMPERATURE, ${ }^{\circ} \mathrm{C}$ | 16.1, August 1-September 30 | 16.1, August 1-September 30 |
| DISSOLVED OXYGEN, mg/L | 7.5, August 28 | 5.3, September 30 |
| DISSOLVED OXYGEN, PERCENT <br> SATURATION,\% | 78, August 28 | 55, September 30 |

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), FOR PERIOD AUGUST TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | ОСт | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 83 |
| 2 | --- | - | --- | --- | -- | - | --- | -- | --- | --- | 90 | 84 |
| 3 | -- | -- | --- | --- | -- | -- | -- | -- | --- | --- | 90 | 84 |
| 4 | -- | --- | --- | --- | --- | --- | -- | -- | -- | -- | 90 | 85 |
| 5 | --- | --- | -- | -- | --- | - | -- | --- | --- | -- | 90 | 85 |
| 6 | --- | --- | --- | -- | --- | --- | --- | --- | -- | --- | 89 | 85 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 89 | 85 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 88 | 85 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | -- | --- | 88 | 86 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | - | --- | 88 | 86 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 88 | 86 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 87 | 86 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 87 | 86 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 87 | 87 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 87 | 87 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | -- | --- | 86 | 86 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | -- | --- | 86 | 86 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | - | --- | 86 | 87 |
| 19 | --- | - | -- | --- | --- | - | - | --- | --- | --- | 86 | 87 |
| 20 | --- | - | --- | --- | -- | --- | --- | --- | --- | -- | 85 | 87 |
| 21 | -- | -- | --- | --- | --- | -- | --- | --- | --- | - | 85 | 87 |
| 22 | --- | --- | --- | --- | --- | -- | --- | -- | -- | -- | 85 | 87 |
| 23 | --- | --- | --- | --- | --- | -- | --- | -- | - | --- | 85 | 88 |
| 24 | -- | --- | --- | -- | --- | -- | -- | --- | --- | -- | 84 | 88 |
| 25 | -- | --- | -- | --- | --- | --- | --- | --- | --- | --- | 84 | 88 |
| 26 | --- | -- | -- | --- | --- | -- | - | --- | --- | --- | -- | 88 |
| 27 | --- | --- | --- | - | --- | -- | --- | -- | -- | -- | --- | 88 |
| 28 | --- | -- | --- | --- | --- | --- | --- | -- | --- | - | --- | 89 |
| 29 | --- | --- | --- | --- | -- | -- | -- | - | --- | --- | 83 | 89 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | -- | --- | 83 | 89 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 83 | --- |
| MEAN | --- | --- | - | --- | - | --- | - | --- | --- | --- | --- | 86 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 89 |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 83 |

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock well)--Continued
PH, WATER, WHOLE, FIELD, STANDARD UNITS, FOR PERIOD AUGUST TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.2 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 7.1 | 7.1 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | - | - | 7.1 | 7.1 |
| 4 | --- | - | --- | --- | --- | -- | --- | --- | - | --- | 7.0 | 7.1 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 7.0 | 7.1 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 7.1 | 7.1 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | -- | -- | 7.1 | 7.1 |
| 8 | -- | - | --- | --- | --- | --- | -- | --- | - | - | 7.1 | 7.1 |
| 9 | --- | - | --- | --- | --- | -- | --- | --- | -- | -- | 7.0 | 7.2 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 7.0 | 7.2 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 7.0 | 7.1 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 | 7.1 |
| 13 | --- | - | - | --- | --- | - | --- | --- | --- | --- | 7.1 | 7.1 |
| 14 | --- | - | --- | --- | --- | --- | --- | --- | --- | - | 7.0 | 7.1 |
| 15 | --- | --- | -- | --- | -- | -- | -- | -- | -- | - | 7.0 | 7.1 |
| 16 | --- | - | - | --- | --- | --- | --- | --- | --- | - | 7.0 | 7.1 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.0 | 7.1 |
| 18 | --- | -- | --- | --- | --- | --- | --- | --- | --- | -- | 7.0 | 7.1 |
| 19 | --- | - | --- | --- | --- | - | - | - | - | --- | 6.9 | 7.1 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.9 | 7.0 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 6.9 | 7.0 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.0 | 7.0 |
| 23 | --- | - | - | --- | --- | --- | --- | --- | --- | -- | 7.0 | 7.0 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 6.9 | 7.1 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 6.9 | 7.1 |
| 26 | --- | - | - | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 | 7.0 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 | 7.0 |
| 31 | --- | --- | --- | --- | --- | --- | --- | - | --- | --- | 7.1 | - |
| MEAN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.2 |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.0 |

WATER TEMPERATURE, DEGREES CELSIUS, FOR PERIOD AUGUST TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 16.1 | 16.1 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 16.1 | 16.1 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 16.1 | 16.1 |
| 5 | --- | --- | --- | --- | --- | --- | -- | --- | -- | -- | 16.1 | 16.1 |
| 6 | --- | - | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | - | -- | 16.1 | 16.1 |
| 8 | --- | --- | --- | --- | --- | --- | --- | -- | -- | -- | 16.1 | 16.1 |
| 9 | --- | - | --- | --- | --- | --- | --- | --- | -- | -- | 16.1 | 16.1 |
| 10 | --- | --- | --- | -- | --- | -- | -- | -- | --- | -- | 16.1 | 16.1 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 12 | --- | - | -- | -- | --- | -- | -- | - | --- | --- | 16.1 | 16.1 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 16.1 | 16.1 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 15 | --- | --- | --- | --- | --- | -- | -- | -- | -- | -- | 16.1 | 16.1 |
| 16 | --- | - | - | - | -- | - | - | - | - | --- | 16.1 | 16.1 |
| 17 | --- | --- | --- | --- | --- | -- | --- | --- | -- | --- | 16.1 | 16.1 |
| 18 | --- | - | -- | --- | --- | --- | --- | --- | --- | - | 16.1 | 16.1 |
| 19 | --- | -- | --- | --- | -- | - | - | -- | - | --- | 16.1 | 16.1 |
| 20 | --- | -- | -- | --- | --- | --- | --- | --- | -- | - | 16.1 | 16.1 |
| 21 | --- | --- | - | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 22 | --- | -- | -- | --- | --- | --- | --- | --- | --- | -- | 16.1 | 16.1 |
| 23 | --- | --- | --- | --- | --- | --- | -- | -- | --- | -- | 16.1 | 16.1 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 26 | --- | - | --- | --- | --- | --- | -- | --- | --- | --- | --- | 16.1 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 |
| 28 | --- | -- | --- | --- | --- | --- | -- | --- | --- | --- | --- | 16.1 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 | 16.1 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | - | - | 16.1 | --- |
| MEAN | --- | - | - | --- | - | --- | - | -- | -- | -- | --- | 16.1 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.1 |
| MIN | --- | --- | --- | --- | --- | --- | --- |  | --- | --- | --- | 16.1 |

353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock well)--Continued
OXYGEN DISSOLVED (MG/L), FOR PERIOD AUGUST TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.6 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.6 | 6.4 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.6 | 6.3 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.6 | 6.3 |
| 5 | --- | --- | --- | --- | -- | --- | --- | --- | - | -- | 5.7 | 6.2 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.8 | 6.1 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | - | --- | 5.9 | 6.1 |
| 8 | --- | -- | --- | -- | --- | --- | --- | --- | --- | -- | 6.0 | 6.0 |
| 9 | -- | - | - | - | --- | --- | --- | --- | -- | -- | 6.0 | 5.9 |
| 10 | --- | --- | --- | --- | -- | -- | -- | -- | -- | -- | 6.1 | 5.9 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.2 | 5.8 |
| 12 | --- | --- | --- | - | - | --- | --- | -- | -- | -- | 6.2 | 5.8 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.3 | 5.8 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.4 | 5.8 |
| 15 | --- | --- | --- | -- | -- | --- | -- | -- | -- | -- | 6.5 | 5.8 |
| 16 | --- | --- | --- | --- | --- | --- | --- | - | --- | --- | 6.6 | 5.7 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.7 | 5.7 |
| 18 | --- | --- | - | - | --- | --- | --- | --- | --- | --- | 6.8 | 5.6 |
| 19 | --- | --- | --- | -- | --- | --- | -- | -- | --- | --- | 6.8 | 5.6 |
| 20 | --- | --- | --- | -- | --- | --- | --- | --- | --- | -- | 6.9 | 5.6 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.0 | 5.6 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.1 | 5.6 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.2 | 5.5 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.3 | 5.4 |
| 25 | --- | --- | --- | -- | --- | --- | --- | --- | --- | --- | 7.3 | 5.4 |
| 26 | --- | - | - | - | -- | --- | --- | --- | --- | --- | --- | 5.4 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.4 |
| 28 | --- | --- | - | -- | -- | --- | --- | --- | --- | --- | --- | 5.4 |
| 29 | --- | --- | --- | - | --- | --- | --- | --- | --- | --- | 7.1 | 5.4 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.0 | 5.3 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 6.8 | --- |
| MEAN | - | --- | --- | --- | --- | --- | --- | -- | --- | --- | --- | 5.8 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.6 |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.3 |

OXYGEN DISSOLVED (\% OF SATURATION), FOR PERIOD AUGUST TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 69 |
| 2 | --- | - | --- | - | --- | --- | --- | -- | -- | - | 59 | 67 |
| 3 | --- | --- | -- | --- | - | --- | -- | - | -- | - | 59 | 66 |
| 4 | -- | --- | --- | -- | --- | --- | --- | - | -- | -- | 59 | 66 |
| 5 | -- | - | -- | - | -- | --- | - | --- | -- | - | 60 | 65 |
| 6 | --- | --- | --- | -- | --- | --- | --- | --- | --- | --- | 61 | 64 |
| 7 | -- | - | - | --- | --- | --- | --- | --- | --- | --- | 62 | 64 |
| 8 | --- | -- | --- | -- | --- | --- | --- | -- | -- | -- | 63 | 63 |
| 9 | --- | -- | - | - | --- | --- | --- | --- | - | - | 63 | 62 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 64 | 62 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 65 | 61 |
| 12 | --- | -- | - | --- | --- | --- | -- | -- | -- | --- | 65 | 61 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 66 | 61 |
| 14 | --- | -- | -- | - | -- | -- | -- | - | --- | --- | 67 | 61 |
| 15 | --- | --- | --- | -- | --- | --- | --- | -- | -- | -- | 68 | 61 |
| 16 | --- | --- | --- | --- | --- | --- | - | --- | --- | - | 69 | 60 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 70 | 60 |
| 18 | --- | -- | - | - | - | --- | --- | - | -- | -- | 71 | 59 |
| 19 | --- | - | - | --- | - | - | --- | --- | -- | --- | 71 | 59 |
| 20 | --- | -- | --- | -- | --- | --- | --- | -- | --- | --- | 72 | 59 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 73 | 59 |
| 22 | --- | -- | -- | - | -- | --- | --- | -- | -- | -- | 74 | 59 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | -- | - | 75 | 57 |
| 24 | --- | -- | --- | -- | --- | --- | --- | --- | --- | -- | 76 | 56 |
| 25 | --- | --- | --- | -- | --- | --- | --- | - | -- | - | 76 | 56 |
| 26 | -- | -- | -- | - | -- | --- | --- | --- | --- | --- | --- | 56 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | --- | 56 |
| 28 | --- | - | - | - | -- | - | -- | -- | -- | - | --- | 56 |
| 29 | --- | -- | --- | - | --- | --- | --- | -- | -- | -- | 74 | 56 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- | 73 | 55 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 71 | --- |
| MEAN | -- | --- | --- | --- | --- | --- | -- | --- | --- | -- | --- | 61 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 69 |
| MIN | --- | --- | --- | --- | --- | --- | - | --- | --- | --- | - | 55 |

IREDELL COUNTY--Continued
353135080524203 IR-132 DENR Langtree Research Station MW-2D (Bedrock 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 <br> WATER <br> WHOLE <br> FIELD (STAND- <br> ARD <br> UNITS) <br> (00400) | $\begin{aligned} & \text { SPE- } \\ & \text { CIFIC } \\ & \text { CON- } \\ & \text { DUCT- } \\ & \text { ANCE } \\ & \text { (US/CM) } \\ & (00095) \end{aligned}$ | TEMPER- <br> ATURE <br> WATER <br> (DEG C) <br> (00010) | HARDNESS TOTAL (MG/L AS CACO3) $(00900)$ | $\begin{aligned} & \text { CALCIUM } \\ & \text { DIS- } \\ & \text { SOLVED } \\ & \text { (MG/L } \\ & \text { AS CA) } \\ & (00915 \text { ) } \end{aligned}$ | $\begin{gathered} \text { MAGNE- } \\ \text { SIUM, } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (MG/L } \\ \text { AS MG) } \\ (00925) \end{gathered}$ | POTAS- SIUM, DIS- SOLVED (MG/L AS K) $(00935)$ | $\begin{aligned} & \text { SODIUM, } \\ & \text { DIS- } \\ & \text { SOLVED } \\ & \text { (MG/L } \\ & \text { AS NA) } \\ & (00930) \end{aligned}$ | ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 $(00419)$ | ANC BICAR- BONATE IT FIELD MG/L AS HCO3 $(00450)$ | $\begin{gathered} \text { BROMIDE } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (MG/L } \\ \text { AS BR) } \\ (71870) \end{gathered}$ | $\begin{aligned} & \text { CHLO- } \\ & \text { RIDE, } \\ & \text { DIS- } \\ & \text { SOLVED } \\ & \text { (MG/L } \\ & \text { AS CL) } \\ & (00940) \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Date | $\begin{aligned} & \text { FLUO- } \\ & \text { RIDE, } \\ & \text { DIS- } \\ & \text { SOLVED } \\ & \text { (MG/L } \\ & \text { AS F) } \\ & (00950) \end{aligned}$ | $\begin{aligned} & \text { SILICA, } \\ & \text { DIS- } \\ & \text { SOLVED } \\ & \text { (MG/L } \\ & \text { AS } \\ & \text { SIO2) } \\ & (00955) \end{aligned}$ | $\begin{aligned} & \text { SULFATE } \\ & \text { DIS- } \\ & \text { SOLVED } \\ & (\mathrm{MG} / \mathrm{L} \\ & \text { AS SO4) } \\ & (00945) \end{aligned}$ | $\begin{gathered} \text { SOLIDS, } \\ \text { RESIDUE } \\ \text { AT } 180 \\ \text { DEG. C } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (MG/L) } \\ (70300) \end{gathered}$ | $\begin{gathered} \text { NITRO- } \\ \text { GEN, } \\ \text { AMMONIA } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (MG/L } \\ \text { AS N) } \\ (00608) \end{gathered}$ | $\begin{aligned} & \text { NITRO- } \\ & \text { GEN, AM- } \\ & \text { MONIA + } \\ & \text { ORGANIC } \\ & \text { DIS. } \\ & \text { (MG/L } \\ & \text { AS N) } \\ & (00623) \end{aligned}$ | $\begin{gathered} \text { NITRO- } \\ \text { GEN, } \\ \text { NO2+NO3 } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (MG/L } \\ \text { AS N) } \\ (00631) \end{gathered}$ | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) $(00613)$ | $\begin{gathered} \text { ORTHO- } \\ \text { PHOS- } \\ \text { PHATE, } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (MG/L } \\ \text { AS P) } \\ (00671) \end{gathered}$ | $\begin{gathered} \text { ARSENIC } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (UG/L } \\ \text { AS AS) } \\ (01000) \end{gathered}$ | $\begin{aligned} & \text { BORON, } \\ & \text { DIS- } \\ & \text { SOLVED } \\ & \text { (UG/L } \\ & \text { AS B) } \\ & (01020) \end{aligned}$ | IRON, DISSOLVED (UG/L AS FE) (01046) | MANGANESE, DISSOLVED (UG/L AS MN) (01056) |
| AUG |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | $\begin{aligned} & \text { ALPHA } \\ & \text { RADIO. } \\ & \text { WATER } \\ & \text { DISS } \\ & \text { AS } \\ & \text { TH-230 } \\ & \text { (PCI/L) } \\ & (04126) \end{aligned}$ | $\begin{gathered} \text { GROSS } \\ \text { BETA, } \\ \text { DIS- } \\ \text { SOLVED } \\ \text { (PCI/L } \\ \text { AS } \\ \text { CS-137) } \\ (03515) \end{gathered}$ | $\begin{gathered} \text { RADON } \\ 222 \\ \text { TOTAL } \\ (\mathrm{PCI} / \mathrm{L}) \\ (82303) \end{gathered}$ |  |  |  |  |  |
| AUG |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

