PERIOD OF RECORD.--Water years 1997 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Water years 1997 to current year.
DISSOLVED OXYGEN: Water years 1997 to current year.
INSTRUMENTATION.--Water-quality monitor since May 1997.
REMARKS.--Interruptions in the data are due to malfunctions of the monitor. Data were collected during the current year for the months of May through September only.
EXTREMES FOR PERIOD OF RECORD.--

| CONSTITUENT | MAXIMUM RECORDED | MINIMUM RECORDED |
| :--- | :--- | :--- |
| WATER TEMPERATURE, ${ }^{\circ} \mathrm{C}$ | 24.8, July 19, August 28, 1998 | 6.8, June 2, 2001 |
| DISSOLVED OXYGEN, mg/L | 12.0, June 14, 2001 | 3.1, November 1, 1998 |

EXTREMES FOR CURRENT YEAR.--

| CONSTITUENT | MAXIMUM RECORDED | MINIMUM RECORDED |
| :--- | :--- | :--- |
| WATER TEMPERATURE, ${ }^{\circ} \mathrm{C}$ | 22.4, August 29 | 6.8, June 2 |
| DISSOLVED OXYGEN, mg/L | 12.0, June 14 | 5.2, July 28 |

TEMPERATURE, WATER (DEG. C), MAY TO SEPTEMBER 2001

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | FEBRUARY |  |  | MARCH |  |  | APRIL |  |  | MAY |  |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.5 | 14.5 | 15.5 |
| 3 | --- | --- | - | --- | --- | --- | - | --- | -- | 17.3 | 14.9 | 16.1 |
| 4 | --- | - | --- | --- | --- | --- | --- | --- | --- | 18.0 | 15.4 | 16.7 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 18.3 | 15.8 | 17.3 |
| 6 | --- | --- | - | --- | --- | --- | --- | --- | --- | 18.0 | 16.6 | 17.5 |
| 7 | --- | - | - | --- | --- | - | --- | --- | -- | 18.0 | 16.7 | 17.3 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.8 | 16.5 | 17.3 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 17.7 | 15.5 | 16.6 |
| 10 | --- | --- | -- | --- | --- | --- | --- | -- | -- | 18.3 | 16.0 | 17.0 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.1 | 15.9 | 17.2 |
| 12 | --- | -- | - | -- | -- | - | - | --- | --- | 17.4 | 16.6 | 16.9 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 17.8 | 15.9 | 16.8 |
| 14 | --- | --- | --- | --- | --- | --- | --- | - | --- | 17.3 | 14.5 | 16.2 |
| 15 | --- | --- | --- | --- | --- | --- | --- | -- | -- | 18.5 | 15.9 | 17.1 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.4 | 16.4 | 17.8 |
| 17 | -- | --- | --- | --- | --- | --- | --- | --- | --- | 19.1 | 17.5 | 18.4 |
| 18 | --- | --- | --- | --- | --- | --- | --- | -- | --- | 20.1 | 17.9 | 19.0 |
| 19 | - | --- | --- | --- | --- | --- | --- | --- | -- | 19.9 | 18.0 | 19.0 |
| 20 | --- | --- | --- | --- | --- | --- | --- | -- | -- | 19.6 | 17.9 | 18.8 |
| 21 | -- | --- | --- | --- | --- | --- | --- | --- | --- | 20.5 | 19.1 | 19.8 |
| 22 | --- | - | - | --- | --- | --- | --- | --- | --- | 20.3 | 17.0 | 19.2 |
| 23 | --- | - | --- | --- | --- | --- | --- | --- | --- | 17.6 | 15.7 | 16.8 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.6 | 15.9 | 17.1 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.5 | 13.3 | 14.8 |
| 26 | -- | --- | --- | - | --- | --- | --- | - | --- | 17.1 | 13.4 | 15.0 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.9 | 14.5 | 15.6 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | - | 16.2 | 15.5 | 15.9 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.7 | 16.0 | 16.6 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.1 | 15.2 | 16.8 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.9 | 12.1 | 15.9 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |


03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued
TEMPERATURE, WATER (DEG. C), MAY TO SEPTEMBER 2001

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | JUNE |  |  | JULY | AUGUST |  |  |  | SEPTEMBER |  |  |
| 1 | 17.1 | 13.4 | 15.0 | 19.5 | 17.1 | 18.4 | 21.5 | 20.7 | 21.1 | 21.6 | 19.6 | 20.7 |
| 2 | 17.6 | 6.8 | 13.7 | 20.2 | 17.9 | 19.0 | 21.4 | 19.2 | 20.5 | 20.1 | 19.3 | 19.7 |
| 3 | 12.5 | 9.3 | 11.4 | 19.8 | 17.3 | 18.6 | 20.7 | 19.3 | 19.8 | 19.9 | 19.5 | 19.7 |
| 4 | 11.4 | 7.8 | 9.5 | 19.5 | 17.7 | 18.6 | 20.4 | 17.9 | 19.4 | 21.3 | 19.3 | 20.2 |
| 5 | 9.4 | 7.3 | 8.1 | 19.7 | 18.1 | 19.3 | 19.0 | 17.5 | 18.1 | 21.4 | 18.1 | 19.7 |
| 6 | 11.6 | 7.7 | 10.3 | 19.4 | 17.2 | 18.4 | 18.9 | 17.4 | 18.2 | 21.4 | 18.7 | 20.0 |
| 7 | 13.6 | 7.8 | 10.9 | 20.1 | 17.6 | 18.6 | 21.2 | 17.9 | 19.6 | 21.3 | 20.0 | 20.6 |
| 8 | 15.4 | 9.4 | 13.3 | 19.9 | 18.0 | 18.8 | 21.3 | 18.6 | 20.0 | 21.5 | 19.8 | 20.6 |
| 9 | 15.9 | 11.9 | 14.6 | 19.9 | 17.7 | 19.3 | 21.2 | 19.2 | 20.3 | 21.6 | 19.9 | 20.6 |
| 10 | 15.9 | 13.5 | 15.4 | 20.3 | 17.6 | 18.9 | 20.9 | 19.5 | 20.1 | 21.5 | 20.0 | 20.8 |
| 11 | 17.4 | 14.5 | 16.4 | 20.4 | 17.6 | 19.1 | 21.1 | 19.0 | 20.3 | 21.4 | 20.3 | 20.9 |
| 12 | 18.5 | 15.7 | 17.2 | 20.6 | 17.6 | 19.3 | 21.2 | 19.4 | 20.5 | 21.6 | 19.9 | 20.7 |
| 13 | 18.8 | 16.0 | 17.7 | 20.4 | 18.2 | 19.2 | 21.4 | 19.6 | 20.6 | 21.6 | 20.4 | 20.9 |
| 14 | 19.5 | 16.5 | 18.0 | 20.7 | 17.2 | 19.2 | 21.8 | 18.7 | 20.3 | 21.4 | 20.2 | 20.7 |
| 15 | 19.3 | 17.8 | 18.5 | 20.6 | 18.6 | 19.6 | 21.6 | 18.4 | 19.9 | 21.0 | 19.7 | 20.3 |
| 16 | 18.6 | 17.0 | 17.8 | 20.9 | 18.8 | 19.7 | 21.6 | 18.7 | 20.1 | 20.4 | 18.8 | 19.7 |
| 17 | 19.2 | 16.8 | 17.9 | 21.1 | 19.4 | 20.3 | 21.5 | 19.2 | 20.3 | 20.4 | 18.7 | 19.5 |
| 18 | 19.4 | 17.2 | 18.3 | 20.9 | 19.5 | 20.2 | 21.8 | 19.2 | 20.9 | 20.4 | 18.8 | 19.6 |
| 19 | 19.5 | 17.9 | 18.8 | 21.1 | 19.8 | 20.3 | 21.9 | 20.5 | 21.1 | 20.1 | 18.6 | 19.5 |
| 20 | 20.2 | 18.6 | 19.3 | 21.7 | 19.9 | 20.6 | 22.0 | 20.4 | 21.1 | 20.3 | 19.1 | 19.5 |
| 21 | 20.2 | 18.4 | 19.3 | 21.3 | 19.9 | 20.5 | 21.7 | 20.1 | 20.9 | 20.2 | 19.0 | 19.6 |
| 22 | 19.9 | 18.7 | 19.4 | 22.1 | 20.2 | 21.0 | 21.7 | 19.8 | 20.9 | 20.2 | 18.8 | 19.4 |
| 23 | 20.6 | 18.3 | 19.2 | 22.1 | 20.1 | 20.9 | 22.0 | 20.1 | 21.1 | 20.5 | 19.2 | 19.8 |
| 24 | 20.6 | 18.3 | 19.4 | 21.4 | 20.6 | 21.1 | --- | --- | --- | 19.9 | 19.2 | 19.6 |
| 25 | 19.6 | 18.0 | 18.7 | 22.2 | 20.8 | 21.3 | --- | --- | - | 19.9 | 18.3 | 19.5 |
| 26 | 20.2 | 17.8 | 18.9 | 21.5 | 20.9 | 21.2 | --- | --- | --- | 19.7 | 17.3 | 18.8 |
| 27 | 19.3 | 18.0 | 18.6 | 21.8 | 21.3 | 21.6 | --- | --- | -- | 18.8 | 16.6 | 17.4 |
| 28 | 20.5 | 18.3 | 19.5 | 22.0 | 21.1 | 21.6 | - | --- | --- | 17.9 | 16.4 | 17.0 |
| 29 | 20.0 | 18.1 | 19.0 | 21.8 | 19.5 | 20.8 | 22.4 | 20.8 | 21.5 | 17.3 | 16.1 | 16.6 |
| 30 | 19.8 | 16.6 | 18.1 | 20.7 | 17.7 | 19.2 | 22.1 | 21.0 | 21.4 | 17.0 | 15.9 | 16.4 |
| 31 | --- | , | , | 21.1 | 18.4 | 20.0 | 21.3 | 20.6 | 20.8 | . | , | , |
| MONTH | 20.6 | 6.8 | 16.4 | 22.2 | 17.1 | 19.8 | --- | --- | --- | 21.6 | 15.9 | 19.6 |

OXYGEN DISSOLVED (MG/L), MAY TO SEPTEMBER 2001

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | FEBRUARY |  |  | MARCH |  |  | APRIL |  |  | MAY |  |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.1 | 9.2 | 9.7 |
| 3 | --- | -- | --- | --- | --- | --- | - | - | --- | 10.0 | 9.1 | 9.5 |
| 4 | --- | -- | --- | --- | --- | --- | --- | --- | --- | 9.8 | 8.6 | 9.2 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 9.5 | 8.5 | 9.0 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 9.2 | 8.5 | 8.8 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 9.2 | 8.6 | 8.8 |
| 8 | --- | --- | --- | --- | --- | --- | --- | - | -- | 9.0 | 8.5 | 8.7 |
| 9 | -- | - | --- | --- | --- | --- | --- | -- | --- | 9.2 | 8.4 | 8.7 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.0 | 8.2 | 8.5 |
| 11 | -- | --- | --- | --- | --- | --- | --- | --- | --- | 9.0 | 8.0 | 8.5 |
| 12 | -- | --- | - | -- | --- | --- | --- | --- | --- | 8.7 | 8.2 | 8.4 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 8.9 | 8.2 | 8.4 |
| 14 | -- | --- | --- | --- | --- | --- | - | --- | --- | 9.1 | 8.0 | 8.5 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.8 | 7.8 | 8.2 |
| 16 | - | --- | --- | --- | - | - | --- | --- | --- | 8.4 | 7.2 | 7.9 |
| 17 | --- | --- | --- | --- | --- | --- | - | --- | -- | 8.1 | 7.3 | 7.6 |
| 18 | --- | --- | -- | -- | --- | --- | - | - | --- | 7.8 | 6.9 | 7.3 |
| 19 | --- | --- | --- | --- | --- | --- | --- | -- | -- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | -- | --- | 9.5 | 8.5 | 9.1 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | -- | 9.1 | 7.9 | 8.4 |
| 22 | --- | --- | --- | --- | --- | --- | -- | -- | --- | 8.5 | 7.8 | 8.1 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.0 | 8.4 | 8.6 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.6 | 8.2 | 8.6 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.2 | 9.3 | 9.8 |
| 26 | --- | -- | --- | -- | --- | --- | -- | -- | -- | 10.1 | 9.0 | 9.7 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.7 | 8.7 | 9.3 |
| 28 | -- | --- |  | - | --- | --- | --- | --- | --- | 9.7 | 8.9 | 9.3 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.6 | 9.1 | 9.3 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.9 | 8.9 | 9.4 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.6 | 9.0 | 9.6 |
| MONTH | --- | --- | -- | --- | --- | --- | --- | -- | -- | -- | --- | --- |

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued
OXYGEN DISSOLVED (MG/L), MAY TO SEPTEMBER 2001

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | JUNE |  |  | JULY |  |  | AUGUST |  |  | SEPTEMBER |  |  |
| 1 | 10.3 | 9.3 | 9.7 | 9.2 | 8.2 | 8.6 | 6.8 | 5.9 | 6.2 | 7.4 | 6.0 | 6.7 |
| 2 | 11.8 | 9.0 | 9.5 | 9.0 | 7.4 | 8.4 | 8.1 | 6.2 | 7.1 | 7.9 | 7.2 | 7.5 |
| 3 | 10.2 | 8.8 | 9.7 | --- | --- | --- | 8.1 | 6.6 | 7.6 | 7.8 | 7.2 | 7.4 |
| 4 | 9.9 | 9.3 | 9.6 | - | --- | --- | 8.3 | 7.0 | 7.6 | 8.0 | 5.9 | 7.0 |
| 5 | 10.0 | 9.5 | 9.8 | --- | --- | --- | 9.0 | 8.3 | 8.6 | 8.8 | 6.0 | 7.5 |
| 6 | 10.3 | 9.6 | 9.9 | --- | --- | -- | 9.3 | 8.8 | 9.0 | 8.8 | 6.3 | 7.6 |
| 7 | 10.2 | 9.8 | 9.9 | 8.3 | 6.8 | 7.6 | 9.2 | 6.8 | 8.0 | 8.3 | 7.2 | 7.6 |
| 8 | 10.3 | 9.7 | 10.0 | 8.4 | 7.4 | 7.8 | 9.2 | 6.8 | 8.4 | 8.4 | 7.4 | 7.8 |
| 9 | 10.6 | 10.0 | 10.2 | 8.5 | 7.2 | 7.6 | 9.1 | 7.1 | 8.1 | 8.5 | 7.5 | 7.9 |
| 10 | 10.9 | 10.2 | 10.4 | 8.9 | 7.3 | 8.1 | 8.9 | 7.8 | 8.2 | 8.9 | 6.2 | 7.3 |
| 11 | 10.9 | 9.8 | 10.4 | 9.2 | 7.3 | 8.5 | 8.0 | 6.9 | 7.4 | 8.0 | 6.9 | 7.4 |
| 12 | 11.4 | 9.7 | 10.3 | 9.4 | 7.3 | 8.3 | 8.4 | 6.9 | 7.5 | 8.3 | 5.8 | 6.9 |
| 13 | 11.7 | 9.5 | 10.3 | 9.2 | 7.7 | 8.8 | 8.4 | 6.7 | 7.7 | 8.2 | 6.0 | 7.3 |
| 14 | 12.0 | 9.6 | 10.7 | 9.4 | 7.0 | 8.2 | 9.0 | 6.4 | 7.7 | 8.1 | 6.6 | 7.3 |
| 15 | 10.4 | 8.1 | 8.9 | 8.7 | 7.4 | 8.2 | 9.2 | 6.7 | 8.1 | 8.4 | 7.4 | 7.8 |
| 16 | 9.0 | 7.6 | 8.4 | 8.7 | 6.4 | 7.9 | 9.4 | 7.0 | 8.4 | 8.7 | 7.5 | 8.0 |
| 17 | 9.2 | 7.4 | 8.6 | 8.2 | 6.4 | 7.2 | 9.3 | 7.2 | 8.2 | 8.8 | 7.6 | 8.0 |
| 18 | 9.4 | 7.5 | 8.6 | 8.4 | 6.4 | 7.6 | 8.9 | 6.8 | 7.9 | 8.7 | 7.2 | 7.8 |
| 19 | 9.4 | 7.8 | 8.4 | 8.0 | 6.4 | 7.3 | 8.8 | 7.6 | 8.3 | 7.9 | 6.9 | 7.4 |
| 20 | 9.6 | 8.1 | 8.8 | 8.2 | 7.3 | 7.6 | 9.0 | 7.1 | 8.1 | 8.5 | 6.7 | 7.7 |
| 21 | 9.3 | 7.8 | 8.3 | 8.2 | 6.4 | 7.2 | 9.1 | 7.0 | 8.0 | 8.5 | 7.5 | 7.9 |
| 22 | 9.4 | 7.9 | 8.6 | 8.2 | 6.8 | 7.5 | 8.5 | 7.2 | 8.0 | 8.9 | 6.7 | 7.7 |
| 23 | 9.5 | 7.9 | 8.6 | 8.3 | 6.1 | 7.3 | 9.3 | 6.7 | 7.8 | 8.6 | 6.8 | 7.6 |
| 24 | 9.9 | 8.4 | 9.1 | 7.8 | 5.9 | 6.8 | -- | --- | - | 7.6 | 7.0 | 7.3 |
| 25 | 10.1 | 8.2 | 9.1 | 7.9 | 6.3 | 7.1 | --- | --- | --- | 7.9 | 6.9 | 7.2 |
| 26 | 9.6 | 6.9 | 8.4 | 7.5 | 5.8 | 6.8 | --- | --- | - | 8.1 | 6.9 | 7.5 |
| 27 | 8.7 | 7.7 | 8.2 | 6.7 | 5.5 | 6.0 | --- | -- | -- | 9.2 | 7.2 | 8.2 |
| 28 | 8.1 | 7.3 | 7.9 | 7.7 | 5.2 | 6.3 | --- | --- | --- | 9.0 | 8.1 | 8.3 |
| 29 | 8.5 | 7.9 | 8.1 | 7.7 | 6.1 | 6.9 | 7.5 | 5.8 | 6.7 | 9.0 | 8.2 | 8.4 |
| 30 | 9.1 | 7.5 | 8.5 | 8.6 | 6.3 | 7.5 | 7.2 | 5.6 | 6.5 | 9.1 | 8.2 | 8.5 |
| 31 | --- | --- | --- | 8.0 | 5.9 | 6.9 | 7.4 | 6.2 | 6.9 | --- | - | --- |
| MONTH | 12.0 | 6.9 | 9.2 | --- | --- | --- | --- | -- | -- | 9.2 | 5.8 | 7.6 |

