



| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/2/2002 0:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 0:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 1:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 1:30                     | 13.07       | 55.53       | 23.25             | 102.00                     | 9.32                          | 4.00          | 8.51               | 11.66                 |       |
| 12/2/2002 2:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 2:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 3:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 3:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 4:00                     | 11.88       | 53.38       | 22.92             | 95.70                      | 8.98                          | 1.95          | 5.78               | 44.06                 |       |
| 12/2/2002 4:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 5:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 5:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 6:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 6:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 7:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 7:30                     | 11.44       | 52.59       | 23.11             | 95.10                      | 9.01                          | 2.08          | 9.02               | 9.95                  |       |
| 12/2/2002 8:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 8:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 9:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 9:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 10:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 10:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 11:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 11:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 12:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 12:30                    | 13.79       | 56.83       | 28.61             | 106.60                     | 9.28                          | 5.12          | 1.45               | 10.95                 |       |
| 12/2/2002 13:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 13:30                    | 13.92       | 57.05       | 27.98             | 109.10                     | 9.51                          | 4.79          | -0.58              | 8.95                  |       |
| 12/2/2002 14:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 14:30                    | 13.89       | 57.00       | 26.35             | 116.90                     | 10.30                         | 4.21          | -0.49              | 9.24                  |       |
| 12/2/2002 15:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 15:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 16:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 16:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 17:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 17:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 18:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 18:30                    | 13.79       | 56.82       | 23.50             | 121.30                     | 10.90                         | 3.34          | 0.44               | 0.14                  |       |
| 12/2/2002 19:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 19:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 20:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 20:30                    | 13.54       | 56.38       | 24.66             | 112.30                     | 10.07                         | 4.56          | 0.22               | 11.04                 |       |
| 12/2/2002 21:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 21:30                    | 13.49       | 56.29       | 25.40             | 109.60                     | 9.79                          | 5.22          | 3.01               | 11.54                 |       |
| 12/2/2002 22:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 22:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 23:00                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/2/2002 23:30                    |             |             |                   |                            |                               |               |                    |                       |       |
| 12/3/2002 0:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/3/2002 0:30                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/3/2002 1:00                     |             |             |                   |                            |                               |               |                    |                       |       |
| 12/3/2002 1:30                     | 13.33       | 56.00       | 26.73             | 103.70                     | 9.22                          | 4.80          | -0.98              | 8.43                  |       |



| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES        |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|--------------|
| 12/4/2002 4:00                     | 13.59       | 56.46       | 26.13             | 99.00                      | 8.79                          | 2.92          | 0.03               | -0.10                 |              |
| 12/4/2002 4:30                     | 13.44       | 56.20       | 25.44             | 102.70                     | 9.18                          | 2.44          | 0.41               | 14.50                 |              |
| 12/4/2002 5:00                     | 13.32       | 55.98       | 25.80             | 100.10                     | 8.95                          | 2.01          | -1.42              | 25.10                 |              |
| 12/4/2002 5:30                     | 12.98       | 55.37       | 24.15             | 96.40                      | 8.77                          | 1.62          | 0.30               | 22.40                 |              |
| 12/4/2002 6:00                     |             |             |                   |                            |                               |               |                    |                       |              |
| 12/4/2002 6:30                     | 12.63       | 54.74       | 23.90             | 95.30                      | 8.75                          | 0.88          | 16.47              | 9.40                  |              |
| 12/4/2002 7:00                     |             |             |                   |                            |                               |               |                    |                       |              |
| 12/4/2002 7:30                     | 12.61       | 54.69       | 23.84             | 89.70                      | 8.24                          | 0.77          | -0.10              | 7.10                  |              |
| 12/4/2002 8:00                     |             |             |                   |                            |                               |               |                    |                       |              |
| 12/4/2002 8:30                     | 12.97       | 55.34       | 24.13             | 96.90                      | 8.82                          | 1.50          | 23.53              | 11.10                 |              |
| 12/4/2002 9:00                     |             |             |                   |                            |                               |               |                    |                       |              |
| 12/4/2002 9:30                     |             |             |                   |                            |                               |               |                    |                       |              |
| 12/4/2002 10:00                    |             |             |                   |                            |                               |               |                    |                       |              |
| 12/4/2002 10:30                    | 13.68       | 56.62       | 25.37             | 97.50                      | 8.65                          | 3.14          | 29.50              | 10.60                 | New<br>Sonde |
| 12/4/2002 11:00                    | 13.92       | 57.06       | 26.26             | 98.70                      | 8.66                          | 3.73          | 16.89              | 8.90                  |              |
| 12/4/2002 11:30                    | 13.99       | 57.19       | 26.60             | 98.40                      | 8.60                          | 4.19          | 19.59              | 9.50                  |              |
| 12/4/2002 12:00                    | 14.25       | 57.65       | 27.89             | 98.50                      | 8.50                          | 4.57          | 38.37              | 12.90                 |              |
| 12/4/2002 12:30                    | 14.37       | 57.87       | 29.53             | 100.30                     | 8.55                          | 5.01          | 14.08              | 9.90                  |              |
| 12/4/2002 13:00                    | 14.47       | 58.04       | 30.03             | 100.80                     | 8.55                          | 5.22          | 14.18              | 9.20                  |              |
| 12/4/2002 13:30                    | 14.57       | 58.23       | 30.67             | 101.30                     | 8.54                          | 5.31          | 7.68               | 8.60                  |              |
| 12/4/2002 14:00                    | 14.63       | 58.34       | 30.74             | 100.40                     | 8.45                          | 5.14          | 4.88               | 7.80                  |              |
| 12/4/2002 14:30                    | 14.65       | 58.37       | 30.40             | 99.60                      | 8.39                          | 4.85          | 3.48               | 9.30                  |              |
| 12/4/2002 15:00                    | 14.70       | 58.46       | 30.55             | 101.90                     | 8.57                          | 4.88          | 3.67               | 7.10                  |              |
| 12/4/2002 15:30                    | 14.71       | 58.47       | 30.81             | 102.00                     | 8.56                          | 4.97          | 6.57               | 9.10                  |              |
| 12/4/2002 16:00                    | 14.74       | 58.53       | 30.65             | 100.40                     | 8.43                          | 4.64          | 3.57               | 6.80                  |              |
| 12/4/2002 16:30                    | 14.76       | 58.56       | 30.13             | 101.70                     | 8.57                          | 4.32          | 2.57               | 9.60                  |              |
| 12/4/2002 17:00                    | 14.76       | 58.56       | 29.77             | 102.00                     | 8.61                          | 3.95          | 4.06               | 8.00                  |              |
| 12/4/2002 17:30                    | 14.86       | 58.74       | 28.73             | 105.50                     | 8.94                          | 3.72          | 3.26               | 9.10                  |              |
| 12/4/2002 18:00                    | 14.92       | 58.86       | 28.02             | 105.70                     | 8.99                          | 3.50          | 3.36               | 9.30                  |              |
| 12/4/2002 18:30                    | 15.01       | 59.01       | 28.47             | 105.00                     | 8.89                          | 3.36          | 3.85               | 8.99                  |              |
| 12/4/2002 19:00                    | 14.74       | 58.54       | 29.60             | 99.20                      | 8.39                          | 3.35          | 6.04               | 8.69                  |              |
| 12/4/2002 19:30                    | 14.91       | 58.83       | 28.74             | 99.60                      | 8.43                          | 3.46          | 4.55               | 7.39                  |              |
| 12/4/2002 20:00                    | 14.84       | 58.72       | 28.96             | 101.30                     | 8.58                          | 3.63          | 3.05               | 8.09                  |              |
| 12/4/2002 20:30                    | 14.79       | 58.63       | 29.85             | 98.10                      | 8.27                          | 3.95          | 6.93               | 7.99                  |              |
| 12/4/2002 21:00                    | 14.82       | 58.67       | 29.81             | 99.30                      | 8.37                          | 4.32          | 6.83               | 7.59                  |              |
| 12/4/2002 21:30                    | 14.85       | 58.73       | 29.86             | 100.00                     | 8.42                          | 4.66          | 3.44               | 8.09                  |              |
| 12/4/2002 22:00                    | 14.91       | 58.83       | 30.19             | 100.70                     | 8.46                          | 5.08          | 4.83               | 7.29                  |              |
| 12/4/2002 22:30                    | 14.87       | 58.76       | 30.75             | 100.10                     | 8.39                          | 5.43          | 6.82               | 7.79                  |              |
| 12/4/2002 23:00                    | 14.98       | 58.96       | 30.97             | 101.90                     | 8.50                          | 5.82          | 8.81               | 6.89                  |              |
| 12/4/2002 23:30                    | 15.01       | 59.02       | 31.34             | 102.20                     | 8.50                          | 6.09          | 4.22               | 6.99                  |              |
| 12/5/2002 0:00                     | 14.96       | 58.92       | 31.46             | 101.20                     | 8.42                          | 6.26          | 8.10               | 6.79                  |              |
| 12/5/2002 0:30                     | 14.91       | 58.84       | 31.63             | 99.70                      | 8.30                          | 6.31          | 5.31               | 7.29                  |              |
| 12/5/2002 1:00                     | 14.91       | 58.84       | 31.64             | 98.10                      | 8.16                          | 6.24          | 4.01               | 6.39                  |              |
| 12/5/2002 1:30                     | 14.94       | 58.89       | 31.53             | 96.50                      | 8.03                          | 5.98          | 2.02               | 5.49                  |              |
| 12/5/2002 2:00                     | 14.99       | 58.98       | 31.35             | 99.60                      | 8.29                          | 5.71          | 3.51               | 7.09                  |              |
| 12/5/2002 2:30                     | 15.00       | 59.00       | 30.76             | 99.30                      | 8.29                          | 5.38          | 3.31               | 6.99                  |              |
| 12/5/2002 3:00                     | 15.00       | 59.00       | 30.84             | 98.30                      | 8.20                          | 4.99          | 2.61               | 6.39                  |              |
| 12/5/2002 3:30                     | 15.03       | 59.06       | 30.34             | 96.10                      | 8.04                          | 4.53          | 3.20               | 5.59                  |              |
| 12/5/2002 4:00                     | 15.03       | 59.06       | 30.13             | 95.90                      | 8.03                          | 4.01          | 6.18               | 7.39                  |              |
| 12/5/2002 4:30                     | 15.17       | 59.30       | 28.78             | 94.60                      | 7.97                          | 3.50          | 8.27               | 6.79                  |              |
| 12/5/2002 5:00                     | 15.21       | 59.38       | 28.52             | 93.30                      | 7.87                          | 2.98          | 4.29               | 6.59                  |              |
| 12/5/2002 5:30                     | 15.31       | 59.56       | 27.93             | 91.50                      | 7.73                          | 2.48          | 10.15              | 6.49                  |              |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/5/2002 6:00                     | 15.40       | 59.72       | 27.69             | 90.50                      | 7.64                          | 2.03          | 7.56               | 6.79                  |       |
| 12/5/2002 6:30                     | 15.49       | 59.89       | 27.52             | 88.40                      | 7.45                          | 1.62          | 9.05               | 7.19                  |       |
| 12/5/2002 7:00                     | 15.50       | 59.90       | 27.49             | 88.90                      | 7.50                          | 1.25          | 8.45               | 7.29                  |       |
| 12/5/2002 7:30                     | 15.73       | 60.31       | 26.60             | 86.10                      | 7.27                          | 1.05          | 5.66               | 6.59                  |       |
| 12/5/2002 8:00                     | 15.89       | 60.60       | 26.07             | 87.70                      | 7.40                          | 1.05          | 6.95               | 7.39                  |       |
| 12/5/2002 8:30                     | 15.96       | 60.72       | 25.88             | 87.70                      | 7.40                          | 1.36          | 17.87              | 7.99                  |       |
| 12/5/2002 9:00                     | 15.84       | 60.52       | 26.52             | 87.70                      | 7.39                          | 1.69          | 15.88              | 7.69                  |       |
| 12/5/2002 9:30                     | 15.81       | 60.45       | 26.95             | 90.90                      | 7.64                          | 2.08          | 21.23              | 7.69                  |       |
| 12/5/2002 10:00                    | 15.82       | 60.48       | 27.04             | 91.60                      | 7.70                          | 2.35          | 14.38              | 7.48                  |       |
| 12/5/2002 10:30                    | 15.83       | 60.49       | 27.01             | 91.60                      | 7.69                          | 2.74          | 19.93              | 8.58                  |       |
| 12/5/2002 11:00                    | 15.82       | 60.47       | 27.19             | 92.20                      | 7.74                          | 3.24          | 20.82              | 8.68                  |       |
| 12/5/2002 11:30                    | 15.79       | 60.43       | 27.81             | 92.60                      | 7.75                          | 3.66          | 27.95              | 8.58                  |       |
| 12/5/2002 12:00                    | 15.77       | 60.39       | 28.41             | 96.20                      | 8.03                          | 4.08          | 12.28              | 9.28                  |       |
| 12/5/2002 12:30                    | 15.73       | 60.32       | 28.61             | 95.90                      | 8.00                          | 4.38          | 16.24              | 8.68                  |       |
| 12/5/2002 13:00                    | 15.71       | 60.27       | 29.08             | 96.30                      | 8.01                          | 4.64          | 16.14              | 10.08                 |       |
| 12/5/2002 13:30                    | 15.75       | 60.35       | 29.37             | 97.20                      | 8.07                          | 4.82          | 21.58              | 10.98                 |       |
| 12/5/2002 14:00                    | 15.78       | 60.40       | 29.95             | 97.60                      | 8.07                          | 4.89          | 25.74              | 11.68                 |       |
| 12/5/2002 14:30                    | 15.64       | 60.15       | 30.59             | 97.60                      | 8.06                          | 4.99          | 24.84              | 13.58                 |       |
| 12/5/2002 15:00                    | 15.78       | 60.41       | 30.97             | 98.50                      | 8.08                          | 4.93          | 23.64              | 12.28                 |       |
| 12/5/2002 15:30                    | 15.86       | 60.54       | 30.76             | 98.90                      | 8.12                          | 4.74          | 16.61              | 10.38                 |       |
| 12/5/2002 16:00                    | 15.81       | 60.46       | 30.83             | 94.60                      | 7.77                          | 4.59          | 27.30              | 11.48                 |       |
| 12/5/2002 16:30                    | 15.72       | 60.30       | 30.57             | 92.10                      | 7.59                          | 4.37          | 27.09              | 12.08                 |       |
| 12/5/2002 17:00                    | 15.78       | 60.40       | 30.36             | 89.30                      | 7.36                          | 4.16          | 24.21              | 10.48                 |       |
| 12/5/2002 17:30                    | 16.08       | 60.95       | 29.31             | 96.80                      | 7.98                          | 3.93          | 8.17               | 8.08                  |       |
| 12/5/2002 18:00                    | 16.38       | 61.48       | 28.65             | 97.50                      | 8.02                          | 3.49          | 8.56               | 8.98                  |       |
| 12/5/2002 18:30                    | 16.40       | 61.52       | 28.71             | 96.20                      | 7.91                          | 3.45          | 6.58               | 7.48                  |       |
| 12/5/2002 19:00                    | 16.26       | 61.26       | 28.99             | 93.60                      | 7.71                          | 3.67          | 7.86               | 7.58                  |       |
| 12/5/2002 19:30                    | 16.34       | 61.41       | 28.77             | 95.00                      | 7.82                          | 3.60          | 15.58              | 9.48                  |       |
| 12/5/2002 20:00                    | 16.54       | 61.77       | 28.15             | 92.70                      | 7.63                          | 3.32          | 24.27              | 8.58                  |       |
| 12/5/2002 20:30                    | 16.57       | 61.83       | 27.98             | 91.70                      | 7.55                          | 3.33          | 13.49              | 8.48                  |       |
| 12/5/2002 21:00                    | 16.26       | 61.26       | 29.24             | 93.40                      | 7.68                          | 3.80          | 23.08              | 10.38                 |       |
| 12/5/2002 21:30                    | 16.32       | 61.38       | 29.04             | 95.20                      | 7.83                          | 4.14          | 11.70              | 8.88                  |       |
| 12/5/2002 22:00                    | 16.27       | 61.28       | 29.05             | 94.30                      | 7.76                          | 4.42          | 11.99              | 8.98                  |       |
| 12/5/2002 22:30                    | 16.12       | 61.02       | 29.68             | 95.50                      | 7.85                          | 4.79          | 25.82              | 9.58                  |       |
| 12/5/2002 23:00                    | 16.04       | 60.88       | 29.76             | 95.70                      | 7.87                          | 5.21          | 13.67              | 8.88                  |       |
| 12/5/2002 23:30                    | 15.93       | 60.67       | 30.59             | 96.80                      | 7.95                          | 5.54          | 23.04              | 10.28                 |       |
| 12/6/2002 0:00                     | 15.77       | 60.39       | 31.26             | 97.40                      | 7.99                          | 5.79          | 31.24              | 11.98                 |       |
| 12/6/2002 0:30                     | 15.72       | 60.29       | 31.37             | 97.30                      | 7.98                          | 5.92          | 20.17              | 11.58                 |       |
| 12/6/2002 1:00                     | 15.76       | 60.37       | 30.98             | 96.70                      | 7.94                          | 5.93          | 17.00              | 9.77                  |       |
| 12/6/2002 1:30                     | 15.79       | 60.43       | 30.64             | 95.80                      | 7.88                          | 5.90          | 13.94              | 8.97                  |       |
| 12/6/2002 2:00                     | 15.83       | 60.49       | 30.21             | 93.70                      | 7.72                          | 5.67          | 37.03              | 12.87                 |       |
| 12/6/2002 2:30                     | 15.86       | 60.54       | 29.93             | 92.80                      | 7.66                          | 5.42          | 20.44              | 9.47                  |       |
| 12/6/2002 3:00                     | 15.89       | 60.61       | 29.21             | 91.80                      | 7.60                          | 5.19          | 27.34              | 11.37                 |       |
| 12/6/2002 3:30                     | 15.92       | 60.66       | 28.34             | 91.00                      | 7.58                          | 4.66          | 72.32              | 16.07                 |       |
| 12/6/2002 4:00                     | 15.90       | 60.62       | 27.81             | 89.80                      | 7.50                          | 4.19          | 29.89              | 10.97                 |       |
| 12/6/2002 4:30                     | 15.89       | 60.61       | 27.46             | 89.00                      | 7.45                          | 3.76          | 24.17              | 9.27                  |       |
| 12/6/2002 5:00                     | 16.07       | 60.92       | 26.62             | 87.40                      | 7.33                          | 3.25          | 28.20              | 8.77                  |       |
| 12/6/2002 5:30                     | 16.07       | 60.92       | 26.45             | 86.60                      | 7.27                          | 2.73          | 17.06              | 8.07                  |       |
| 12/6/2002 6:00                     | 15.86       | 60.54       | 26.47             | 86.40                      | 7.28                          | 2.27          | 19.12              | 8.27                  |       |
| 12/6/2002 6:30                     | 15.63       | 60.13       | 26.36             | 85.70                      | 7.26                          | 1.80          | 15.67              | 7.87                  |       |
| 12/6/2002 7:00                     | 15.25       | 59.45       | 26.44             | 85.90                      | 7.33                          | 1.34          | 11.23              | 8.27                  |       |
| 12/6/2002 7:30                     | 14.83       | 58.69       | 26.60             | 85.90                      | 7.38                          | 0.95          | 13.09              | 7.67                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/6/2002 8:00                     | 14.36       | 57.84       | 26.92             | 88.10                      | 7.63                          | 0.64          | 23.24              | 8.37                  |       |
| 12/6/2002 8:30                     | 14.14       | 57.46       | 25.92             | 89.30                      | 7.82                          | 0.39          | 29.83              | 9.77                  |       |
| 12/6/2002 9:00                     | 13.80       | 56.84       | 25.89             | 92.80                      | 8.19                          | 0.28          | 19.48              | 8.57                  |       |
| 12/6/2002 9:30                     | 14.08       | 57.35       | 25.93             | 89.60                      | 7.86                          | 0.53          | 14.85              | 7.97                  |       |
| 12/6/2002 10:00                    | 14.53       | 58.15       | 25.48             | 85.60                      | 7.45                          | 0.81          | 18.19              | 8.27                  |       |
| 12/6/2002 10:30                    | 14.73       | 58.51       | 25.37             | 86.30                      | 7.49                          | 1.27          | 31.67              | 9.97                  |       |
| 12/6/2002 11:00                    | 14.71       | 58.48       | 25.35             | 87.00                      | 7.55                          | 1.72          | 23.79              | 9.57                  |       |
| 12/6/2002 11:30                    | 14.63       | 58.33       | 25.26             | 90.10                      | 7.84                          | 2.18          | 15.03              | 9.17                  |       |
| 12/6/2002 12:00                    | 14.61       | 58.29       | 25.22             | 89.50                      | 7.79                          | 2.57          | 18.86              | 10.47                 |       |
| 12/6/2002 12:30                    | 14.77       | 58.58       | 25.46             | 88.50                      | 7.67                          | 2.82          | 20.52              | 9.37                  |       |
| 12/6/2002 13:00                    | 14.81       | 58.66       | 26.94             | 91.20                      | 7.82                          | 3.17          | 16.78              | 9.87                  |       |
| 12/6/2002 13:30                    | 14.80       | 58.64       | 27.09             | 91.60                      | 7.85                          | 3.44          | 32.02              | 11.67                 |       |
| 12/6/2002 14:00                    | 14.73       | 58.51       | 27.38             | 92.70                      | 7.95                          | 3.62          | 21.69              | 11.67                 |       |
| 12/6/2002 14:30                    | 14.66       | 58.39       | 27.65             | 93.70                      | 8.03                          | 3.83          | 14.21              | 11.47                 |       |
| 12/6/2002 15:00                    | 14.64       | 58.36       | 27.92             | 94.20                      | 8.07                          | 3.93          | 15.68              | 10.97                 |       |
| 12/6/2002 15:30                    | 14.57       | 58.22       | 28.07             | 94.60                      | 8.11                          | 3.96          | 15.97              | 10.77                 |       |
| 12/6/2002 16:00                    | 14.48       | 58.06       | 27.78             | 93.60                      | 8.04                          | 3.86          | 22.35              | 10.07                 |       |
| 12/6/2002 16:30                    | 14.41       | 57.94       | 27.50             | 92.70                      | 7.99                          | 3.74          | 14.49              | 9.16                  |       |
| 12/6/2002 17:00                    | 14.32       | 57.78       | 27.36             | 91.50                      | 7.91                          | 3.66          | 13.01              | 9.06                  |       |
| 12/6/2002 17:30                    | 14.15       | 57.47       | 26.56             | 89.50                      | 7.80                          | 3.45          | 12.91              | 7.96                  |       |
| 12/6/2002 18:00                    | 14.00       | 57.20       | 25.57             | 89.00                      | 7.83                          | 3.28          | 16.24              | 9.26                  |       |
| 12/6/2002 18:30                    | 13.98       | 57.17       | 25.17             | 89.80                      | 7.92                          | 3.04          | 17.41              | 9.26                  |       |
| 12/6/2002 19:00                    | 13.68       | 56.62       | 25.17             | 90.50                      | 8.04                          | 2.88          | 13.97              | 10.36                 |       |
| 12/6/2002 19:30                    | 13.50       | 56.30       | 25.16             | 90.30                      | 8.05                          | 2.75          | 11.32              | 8.86                  |       |
| 12/6/2002 20:00                    | 13.31       | 55.96       | 25.09             | 90.00                      | 8.06                          | 2.73          | 18.48              | 8.56                  |       |
| 12/6/2002 20:30                    | 13.17       | 55.70       | 24.98             | 90.70                      | 8.15                          | 2.76          | 12.39              | 8.46                  |       |
| 12/6/2002 21:00                    | 13.09       | 55.57       | 24.97             | 91.90                      | 8.27                          | 2.80          | 9.54               | 9.36                  |       |
| 12/6/2002 21:30                    | 13.46       | 56.22       | 25.36             | 90.50                      | 8.07                          | 2.94          | 8.26               | 8.46                  |       |
| 12/6/2002 22:00                    | 13.14       | 55.65       | 25.80             | 89.50                      | 8.01                          | 3.18          | 12.77              | 8.36                  |       |
| 12/6/2002 22:30                    | 13.20       | 55.76       | 25.91             | 90.80                      | 8.11                          | 3.44          | 14.82              | 8.86                  |       |
| 12/6/2002 23:00                    | 13.46       | 56.22       | 26.81             | 91.60                      | 8.09                          | 3.70          | 14.03              | 10.26                 |       |
| 12/6/2002 23:30                    | 13.34       | 56.01       | 27.13             | 91.50                      | 8.09                          | 3.93          | 17.85              | 10.06                 |       |
| 12/7/2002 0:00                     | 13.30       | 55.94       | 26.89             | 92.00                      | 8.14                          | 4.25          | 11.87              | 10.36                 |       |
| 12/7/2002 0:30                     | 13.65       | 56.57       | 27.35             | 91.30                      | 8.00                          | 4.56          | 16.27              | 10.86                 |       |
| 12/7/2002 1:00                     | 13.81       | 56.85       | 27.84             | 91.70                      | 7.99                          | 4.81          | 10.10              | 9.96                  |       |
| 12/7/2002 1:30                     | 13.66       | 56.59       | 27.66             | 91.20                      | 7.98                          | 5.03          | 11.66              | 10.26                 |       |
| 12/7/2002 2:00                     | 13.29       | 55.93       | 26.52             | 90.90                      | 8.07                          | 5.02          | 10.58              | 9.86                  |       |
| 12/7/2002 2:30                     | 13.15       | 55.67       | 25.90             | 90.30                      | 8.07                          | 4.90          | 21.24              | 10.86                 |       |
| 12/7/2002 3:00                     | 13.12       | 55.61       | 25.92             | 89.60                      | 8.01                          | 4.71          | 27.60              | 9.86                  |       |
| 12/7/2002 3:30                     | 12.89       | 55.20       | 25.15             | 88.60                      | 8.00                          | 4.46          | 18.30              | 8.76                  |       |
| 12/7/2002 4:00                     | 12.77       | 54.98       | 24.92             | 89.20                      | 8.09                          | 4.20          | 23.77              | 9.86                  |       |
| 12/7/2002 4:30                     | 12.56       | 54.61       | 24.76             | 90.00                      | 8.20                          | 3.85          | 15.16              | 9.46                  |       |
| 12/7/2002 5:00                     | 12.23       | 54.02       | 24.12             | 89.80                      | 8.27                          | 3.48          | 19.85              | 8.56                  |       |
| 12/7/2002 5:30                     | 11.86       | 53.34       | 24.28             | 89.70                      | 8.33                          | 3.12          | 14.27              | 8.86                  |       |
| 12/7/2002 6:00                     | 11.39       | 52.51       | 24.84             | 89.20                      | 8.33                          | 2.72          | 10.15              | 8.36                  |       |
| 12/7/2002 6:30                     | 10.97       | 51.74       | 24.87             | 89.00                      | 8.39                          | 2.33          | 11.91              | 7.86                  |       |
| 12/7/2002 7:00                     | 10.77       | 51.39       | 24.66             | 89.30                      | 8.47                          | 1.92          | 8.19               | 8.86                  |       |
| 12/7/2002 7:30                     | 10.54       | 50.98       | 24.59             | 89.60                      | 8.54                          | 1.55          | 10.04              | 7.36                  |       |
| 12/7/2002 8:00                     | 10.26       | 50.47       | 24.65             | 90.40                      | 8.67                          | 1.19          | 9.55               | 7.15                  |       |
| 12/7/2002 8:30                     | 10.04       | 50.08       | 24.68             | 93.70                      | 9.02                          | 0.83          | 9.16               | 6.45                  |       |
| 12/7/2002 9:00                     | 9.81        | 49.66       | 24.84             | 98.80                      | 9.56                          | 0.52          | 21.75              | 7.75                  |       |
| 12/7/2002 9:30                     | 10.13       | 50.23       | 24.90             | 104.50                     | 10.03                         | 0.35          | 7.78               | 4.55                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/7/2002 10:00                    | 10.53       | 50.95       | 25.02             | 107.80                     | 10.25                         | 0.44          | 47.13              | 5.95                  |       |
| 12/7/2002 10:30                    | 10.44       | 50.80       | 24.74             | 101.30                     | 9.67                          | 0.70          | 9.82               | 4.95                  |       |
| 12/7/2002 11:00                    | 11.02       | 51.84       | 24.35             | 95.70                      | 9.04                          | 1.08          | 29.93              | 8.55                  |       |
| 12/7/2002 11:30                    | 11.01       | 51.81       | 24.08             | 95.30                      | 9.02                          | 1.46          | 25.53              | 8.85                  |       |
| 12/7/2002 12:00                    | 11.44       | 52.60       | 23.69             | 96.20                      | 9.05                          | 1.82          | 13.91              | 6.85                  |       |
| 12/7/2002 12:30                    | 11.78       | 53.21       | 23.76             | 97.40                      | 9.09                          | 2.23          | 13.13              | 6.55                  |       |
| 12/7/2002 13:00                    | 11.87       | 53.36       | 23.97             | 96.90                      | 9.01                          | 2.60          | 8.15               | 6.65                  |       |
| 12/7/2002 13:30                    | 12.38       | 54.28       | 24.52             | 98.00                      | 8.98                          | 2.90          | 7.56               | 7.45                  |       |
| 12/7/2002 14:00                    | 12.68       | 54.83       | 24.39             | 97.10                      | 8.84                          | 3.23          | 9.70               | 8.25                  |       |
| 12/7/2002 14:30                    | 12.93       | 55.27       | 24.18             | 98.50                      | 8.94                          | 3.52          | 10.77              | 8.45                  |       |
| 12/7/2002 15:00                    | 12.98       | 55.36       | 24.38             | 98.10                      | 8.89                          | 3.72          | 8.52               | 8.45                  |       |
| 12/7/2002 15:30                    | 13.02       | 55.44       | 24.63             | 97.20                      | 8.78                          | 3.88          | 6.37               | 7.85                  |       |
| 12/7/2002 16:00                    | 13.12       | 55.61       | 24.82             | 97.40                      | 8.77                          | 3.98          | 7.34               | 7.95                  |       |
| 12/7/2002 16:30                    | 13.19       | 55.74       | 25.10             | 97.20                      | 8.73                          | 4.02          | 6.17               | 8.35                  |       |
| 12/7/2002 17:00                    | 13.22       | 55.80       | 24.96             | 97.30                      | 8.73                          | 3.92          | 5.97               | 7.55                  |       |
| 12/7/2002 17:30                    | 13.23       | 55.82       | 24.77             | 95.90                      | 8.62                          | 3.79          | 4.22               | 5.85                  |       |
| 12/7/2002 18:00                    | 13.22       | 55.80       | 24.51             | 96.90                      | 8.72                          | 3.64          | 3.53               | 6.75                  |       |
| 12/7/2002 18:30                    | 13.16       | 55.68       | 24.39             | 97.10                      | 8.76                          | 3.45          | 2.65               | 6.75                  |       |
| 12/7/2002 19:00                    | 13.08       | 55.54       | 24.37             | 97.30                      | 8.79                          | 3.31          | 3.43               | 7.15                  |       |
| 12/7/2002 19:30                    | 13.04       | 55.47       | 24.38             | 96.40                      | 8.72                          | 3.14          | 3.23               | 6.05                  |       |
| 12/7/2002 20:00                    | 13.01       | 55.42       | 24.36             | 98.90                      | 8.95                          | 2.97          | 3.52               | 6.25                  |       |
| 12/7/2002 20:30                    | 12.99       | 55.39       | 24.11             | 100.90                     | 9.15                          | 2.73          | 2.84               | 5.55                  |       |
| 12/7/2002 21:00                    | 12.96       | 55.32       | 24.06             | 98.30                      | 8.92                          | 2.71          | 2.15               | 5.85                  |       |
| 12/7/2002 21:30                    | 12.97       | 55.35       | 24.32             | 98.40                      | 8.91                          | 2.78          | 2.44               | 6.25                  |       |
| 12/7/2002 22:00                    | 12.94       | 55.29       | 24.42             | 97.80                      | 8.86                          | 2.76          | 3.70               | 6.55                  |       |
| 12/7/2002 22:30                    | 12.92       | 55.26       | 24.55             | 97.00                      | 8.78                          | 2.87          | 3.90               | 6.15                  |       |
| 12/7/2002 23:00                    | 12.79       | 55.03       | 24.52             | 95.70                      | 8.70                          | 3.13          | 4.77               | 7.04                  |       |
| 12/7/2002 23:30                    | 12.81       | 55.06       | 24.62             | 94.50                      | 8.58                          | 3.40          | 4.57               | 7.34                  |       |
| 12/8/2002 0:00                     | 12.94       | 55.29       | 25.07             | 95.30                      | 8.60                          | 3.58          | 3.50               | 7.74                  |       |
| 12/8/2002 0:30                     | 12.97       | 55.34       | 25.58             | 94.30                      | 8.48                          | 3.84          | 4.47               | 7.34                  |       |
| 12/8/2002 1:00                     | 13.07       | 55.52       | 26.24             | 93.70                      | 8.37                          | 4.06          | 5.24               | 7.24                  |       |
| 12/8/2002 1:30                     | 13.14       | 55.66       | 28.01             | 94.60                      | 8.35                          | 4.30          | 6.79               | 9.84                  |       |
| 12/8/2002 2:00                     | 13.16       | 55.69       | 28.40             | 94.00                      | 8.27                          | 4.41          | 5.91               | 10.74                 |       |
| 12/8/2002 2:30                     | 13.19       | 55.75       | 28.26             | 93.60                      | 8.24                          | 4.65          | 3.00               | 9.04                  |       |
| 12/8/2002 3:00                     | 13.14       | 55.65       | 28.01             | 93.80                      | 8.28                          | 4.79          | 3.09               | 9.54                  |       |
| 12/8/2002 3:30                     | 13.12       | 55.61       | 27.97             | 91.90                      | 8.12                          | 4.75          | 2.12               | 8.14                  |       |
| 12/8/2002 4:00                     | 13.01       | 55.42       | 27.86             | 92.80                      | 8.22                          | 4.61          | 3.57               | 7.94                  |       |
| 12/8/2002 4:30                     | 12.88       | 55.18       | 27.51             | 91.70                      | 8.16                          | 4.48          | 2.60               | 6.94                  |       |
| 12/8/2002 5:00                     | 12.70       | 54.86       | 27.25             | 92.70                      | 8.29                          | 4.09          | 2.98               | 7.44                  |       |
| 12/8/2002 5:30                     | 12.59       | 54.66       | 26.26             | 92.40                      | 8.33                          | 3.74          | 3.17               | 7.04                  |       |
| 12/8/2002 6:00                     | 12.38       | 54.29       | 25.06             | 92.80                      | 8.47                          | 3.42          | 2.59               | 6.44                  |       |
| 12/8/2002 6:30                     | 12.33       | 54.19       | 24.89             | 92.10                      | 8.43                          | 3.04          | 2.78               | 5.64                  |       |
| 12/8/2002 7:00                     | 12.27       | 54.09       | 24.56             | 92.40                      | 8.48                          | 2.65          | 8.01               | 6.24                  |       |
| 12/8/2002 7:30                     | 12.11       | 53.80       | 24.56             | 92.30                      | 8.50                          | 2.38          | 2.58               | 5.24                  |       |
| 12/8/2002 8:00                     | 12.12       | 53.81       | 24.33             | 92.40                      | 8.53                          | 2.03          | 3.35               | 5.24                  |       |
| 12/8/2002 8:30                     | 12.02       | 53.63       | 24.12             | 92.80                      | 8.59                          | 1.71          | 3.45               | 5.74                  |       |
| 12/8/2002 9:00                     | 12.03       | 53.65       | 24.23             | 94.70                      | 8.76                          | 1.46          | 2.28               | 5.44                  |       |
| 12/8/2002 9:30                     | 12.12       | 53.81       | 24.33             | 97.70                      | 9.02                          | 1.24          | 2.67               | 5.44                  |       |
| 12/8/2002 10:00                    | 12.42       | 54.35       | 24.35             | 102.40                     | 9.38                          | 1.05          | 2.66               | 4.94                  |       |
| 12/8/2002 10:30                    | 12.80       | 55.04       | 24.32             | 106.80                     | 9.72                          | 1.10          | 1.60               | 4.64                  |       |
| 12/8/2002 11:00                    | 12.74       | 54.94       | 24.23             | 102.60                     | 9.35                          | 1.31          | 3.92               | 4.94                  |       |
| 12/8/2002 11:30                    | 13.09       | 55.56       | 24.14             | 102.50                     | 9.28                          | 1.59          | 7.40               | 6.14                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/8/2002 12:00                    | 13.24       | 55.83       | 24.22             | 101.60                     | 9.16                          | 1.90          | 3.72               | 5.44                  |       |
| 12/8/2002 12:30                    | 13.30       | 55.94       | 24.14             | 101.00                     | 9.10                          | 2.21          | 1.68               | 5.84                  |       |
| 12/8/2002 13:00                    | 13.34       | 56.01       | 24.22             | 100.80                     | 9.06                          | 2.47          | 1.97               | 4.64                  |       |
| 12/8/2002 13:30                    | 13.31       | 55.95       | 24.62             | 99.20                      | 8.91                          | 2.81          | 2.35               | 5.84                  |       |
| 12/8/2002 14:00                    | 13.21       | 55.78       | 25.09             | 98.00                      | 8.79                          | 3.17          | 2.35               | 6.54                  |       |
| 12/8/2002 14:30                    | 13.42       | 56.15       | 26.03             | 97.50                      | 8.65                          | 3.44          | 5.25               | 7.43                  |       |
| 12/8/2002 15:00                    | 13.51       | 56.31       | 26.60             | 98.60                      | 8.70                          | 3.85          | 4.38               | 7.93                  |       |
| 12/8/2002 15:30                    | 13.77       | 56.79       | 27.15             | 100.40                     | 8.79                          | 4.10          | 3.02               | 7.93                  |       |
| 12/8/2002 16:00                    | 13.82       | 56.88       | 27.46             | 100.20                     | 8.74                          | 4.24          | 1.76               | 8.63                  |       |
| 12/8/2002 16:30                    | 13.94       | 57.10       | 27.84             | 100.30                     | 8.71                          | 4.43          | 2.43               | 7.03                  |       |
| 12/8/2002 17:00                    | 14.01       | 57.22       | 28.70             | 99.90                      | 8.62                          | 4.55          | 1.75               | 8.13                  |       |
| 12/8/2002 17:30                    | 14.02       | 57.23       | 28.77             | 97.50                      | 8.41                          | 4.44          | 1.08               | 6.83                  |       |
| 12/8/2002 18:00                    | 13.93       | 57.07       | 28.68             | 97.80                      | 8.45                          | 4.45          | 1.27               | 8.23                  |       |
| 12/8/2002 18:30                    | 13.97       | 57.15       | 28.56             | 96.00                      | 8.30                          | 4.19          | 3.77               | 7.33                  |       |
| 12/8/2002 19:00                    | 13.88       | 56.99       | 27.23             | 98.10                      | 8.56                          | 3.89          | 2.13               | 6.53                  |       |
| 12/8/2002 19:30                    | 13.97       | 57.15       | 29.15             | 97.50                      | 8.40                          | 3.83          | 2.32               | 8.43                  |       |
| 12/8/2002 20:00                    | 14.01       | 57.21       | 29.15             | 94.70                      | 8.15                          | 3.68          | 1.35               | 7.13                  |       |
| 12/8/2002 20:30                    | 14.01       | 57.22       | 29.15             | 91.80                      | 7.90                          | 3.47          | 1.83               | 5.63                  |       |
| 12/8/2002 21:00                    | 13.99       | 57.18       | 28.54             | 95.10                      | 8.22                          | 3.33          | 0.48               | 5.43                  |       |
| 12/8/2002 21:30                    | 13.98       | 57.17       | 28.02             | 92.50                      | 8.02                          | 3.32          | 1.15               | 5.13                  |       |
| 12/8/2002 22:00                    | 14.01       | 57.22       | 27.83             | 91.30                      | 7.92                          | 3.23          | 1.05               | 5.73                  |       |
| 12/8/2002 22:30                    | 14.03       | 57.26       | 29.40             | 95.10                      | 8.17                          | 3.21          | 2.98               | 7.23                  |       |
| 12/8/2002 23:00                    | 14.07       | 57.32       | 28.35             | 96.90                      | 8.37                          | 3.30          | 2.59               | 8.03                  |       |
| 12/8/2002 23:30                    | 14.09       | 57.37       | 28.17             | 96.20                      | 8.32                          | 3.37          | 2.01               | 7.23                  |       |
| 12/9/2002 0:00                     | 14.06       | 57.30       | 28.92             | 92.90                      | 8.00                          | 3.44          | 4.90               | 6.33                  |       |
| 12/9/2002 0:30                     | 14.02       | 57.24       | 29.35             | 91.80                      | 7.89                          | 3.63          | 2.97               | 7.33                  |       |
| 12/9/2002 1:00                     | 14.01       | 57.22       | 29.15             | 94.10                      | 8.10                          | 3.83          | 2.19               | 7.73                  |       |
| 12/9/2002 1:30                     | 14.01       | 57.21       | 29.80             | 94.40                      | 8.09                          | 4.06          | 2.58               | 7.63                  |       |
| 12/9/2002 2:00                     | 13.97       | 57.14       | 30.02             | 94.60                      | 8.10                          | 4.31          | 1.42               | 7.43                  |       |
| 12/9/2002 2:30                     | 13.91       | 57.03       | 30.11             | 95.20                      | 8.16                          | 4.63          | 2.28               | 7.63                  |       |
| 12/9/2002 3:00                     | 13.90       | 57.02       | 30.06             | 96.40                      | 8.27                          | 4.81          | 2.18               | 8.33                  |       |
| 12/9/2002 3:30                     | 13.89       | 57.00       | 30.18             | 96.00                      | 8.23                          | 4.83          | 1.89               | 8.23                  |       |
| 12/9/2002 4:00                     | 13.88       | 56.98       | 30.43             | 95.80                      | 8.20                          | 4.90          | 1.22               | 8.43                  |       |
| 12/9/2002 4:30                     | 13.89       | 57.01       | 30.57             | 95.50                      | 8.17                          | 4.87          | 1.40               | 8.43                  |       |
| 12/9/2002 5:00                     | 13.91       | 57.04       | 30.57             | 94.60                      | 8.09                          | 4.71          | 1.21               | 8.43                  |       |
| 12/9/2002 5:30                     | 13.88       | 56.99       | 30.07             | 95.00                      | 8.14                          | 4.55          | 1.11               | 9.23                  |       |
| 12/9/2002 6:00                     | 13.91       | 57.04       | 29.11             | 92.90                      | 8.01                          | 4.27          | 0.44               | 6.02                  |       |
| 12/9/2002 6:30                     | 13.96       | 57.13       | 28.36             | 93.00                      | 8.05                          | 3.97          | 0.14               | 5.92                  |       |
| 12/9/2002 7:00                     | 14.11       | 57.39       | 28.13             | 91.70                      | 7.92                          | 3.70          | 0.91               | 5.22                  |       |
| 12/9/2002 7:30                     | 14.24       | 57.64       | 27.02             | 92.20                      | 8.00                          | 3.35          | 0.24               | 4.92                  |       |
| 12/9/2002 8:00                     | 14.21       | 57.58       | 27.05             | 90.30                      | 7.84                          | 2.98          | 0.62               | 4.92                  |       |
| 12/9/2002 8:30                     | 14.26       | 57.67       | 26.17             | 91.80                      | 8.00                          | 2.66          | 0.71               | 5.02                  |       |
| 12/9/2002 9:00                     | 14.27       | 57.69       | 25.95             | 92.40                      | 8.07                          | 2.34          | 0.23               | 5.02                  |       |
| 12/9/2002 9:30                     | 14.35       | 57.83       | 25.68             | 92.90                      | 8.11                          | 2.04          | 0.80               | 4.92                  |       |
| 12/9/2002 10:00                    | 14.71       | 58.48       | 24.84             | 92.50                      | 8.06                          | 1.72          | 1.47               | 5.02                  |       |
| 12/9/2002 10:30                    | 14.70       | 58.46       | 24.63             | 92.60                      | 8.08                          | 1.53          | 1.76               | 5.62                  |       |
| 12/9/2002 11:00                    | 14.69       | 58.44       | 24.94             | 93.90                      | 8.18                          | 1.44          | 1.18               | 5.12                  |       |
| 12/9/2002 11:30                    | 14.68       | 58.42       | 25.30             | 96.70                      | 8.40                          | 1.44          | 1.46               | 5.22                  |       |
| 12/9/2002 12:00                    | 14.63       | 58.33       | 25.40             | 94.80                      | 8.25                          | 1.56          | 1.08               | 4.92                  |       |
| 12/9/2002 12:30                    | 14.67       | 58.40       | 25.35             | 97.70                      | 8.49                          | 1.79          | 3.19               | 5.92                  |       |
| 12/9/2002 13:00                    | 14.68       | 58.43       | 25.56             | 96.50                      | 8.37                          | 2.03          | 0.88               | 5.42                  |       |
| 12/9/2002 13:30                    | 14.61       | 58.30       | 25.77             | 95.70                      | 8.30                          | 2.33          | 0.78               | 5.32                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/9/2002 14:00                    | 14.58       | 58.25       | 26.00             | 95.00                      | 8.23                          | 2.52          | 0.78               | 5.52                  |       |
| 12/9/2002 14:30                    | 14.56       | 58.21       | 26.21             | 95.10                      | 8.24                          | 2.62          | 1.35               | 5.52                  |       |
| 12/9/2002 15:00                    | 14.51       | 58.11       | 26.67             | 95.50                      | 8.26                          | 2.98          | 1.83               | 6.02                  |       |
| 12/9/2002 15:30                    | 14.33       | 57.79       | 27.11             | 94.40                      | 8.18                          | 3.31          | 4.03               | 6.72                  |       |
| 12/9/2002 16:00                    | 14.26       | 57.67       | 28.22             | 94.50                      | 8.14                          | 3.65          | 6.62               | 7.72                  |       |
| 12/9/2002 16:30                    | 14.27       | 57.68       | 28.54             | 94.20                      | 8.10                          | 3.84          | 4.12               | 7.72                  |       |
| 12/9/2002 17:00                    | 14.29       | 57.72       | 28.48             | 94.30                      | 8.10                          | 4.10          | 2.39               | 7.82                  |       |
| 12/9/2002 17:30                    | 14.24       | 57.64       | 29.02             | 94.60                      | 8.11                          | 4.43          | 1.53               | 8.22                  |       |
| 12/9/2002 18:00                    | 14.25       | 57.65       | 29.00             | 93.70                      | 8.03                          | 4.29          | 2.87               | 7.72                  |       |
| 12/9/2002 18:30                    | 14.32       | 57.78       | 28.61             | 92.80                      | 7.96                          | 3.89          | 2.00               | 7.12                  |       |
| 12/9/2002 19:00                    | 14.34       | 57.82       | 28.44             | 92.10                      | 7.90                          | 3.84          | 1.52               | 5.82                  |       |
| 12/9/2002 19:30                    | 14.39       | 57.90       | 28.03             | 93.20                      | 8.01                          | 3.64          | 1.52               | 6.92                  |       |
| 12/9/2002 20:00                    | 14.43       | 57.97       | 27.63             | 93.00                      | 8.01                          | 3.52          | 1.52               | 5.82                  |       |
| 12/9/2002 20:30                    | 14.55       | 58.19       | 27.00             | 93.40                      | 8.05                          | 3.39          | 2.18               | 5.42                  |       |
| 12/9/2002 21:00                    | 14.73       | 58.51       | 26.10             | 93.70                      | 8.10                          | 3.15          | 4.29               | 6.31                  |       |
| 12/9/2002 21:30                    | 14.83       | 58.69       | 25.78             | 93.80                      | 8.11                          | 2.87          | 3.33               | 4.81                  |       |
| 12/9/2002 22:00                    | 14.89       | 58.81       | 25.50             | 93.30                      | 8.06                          | 2.67          | 2.37               | 5.01                  |       |
| 12/9/2002 22:30                    | 14.89       | 58.80       | 25.44             | 93.60                      | 8.09                          | 2.53          | 2.27               | 5.51                  |       |
| 12/9/2002 23:00                    | 14.87       | 58.77       | 25.40             | 92.70                      | 8.02                          | 2.42          | 1.79               | 5.11                  |       |
| 12/9/2002 23:30                    | 14.83       | 58.70       | 25.89             | 92.80                      | 8.01                          | 2.56          | 4.27               | 5.91                  |       |
| 12/10/2002 0:00                    | 14.80       | 58.64       | 25.91             | 93.50                      | 8.08                          | 2.89          | 8.76               | 6.91                  |       |
| 12/10/2002 0:30                    | 14.77       | 58.58       | 26.22             | 93.50                      | 8.07                          | 3.12          | 7.32               | 6.31                  |       |
| 12/10/2002 1:00                    | 14.60       | 58.28       | 27.23             | 93.40                      | 8.03                          | 3.29          | 6.75               | 6.41                  |       |
| 12/10/2002 1:30                    | 14.52       | 58.13       | 27.81             | 93.40                      | 8.02                          | 3.64          | 9.23               | 6.91                  |       |
| 12/10/2002 2:00                    | 14.42       | 57.96       | 29.02             | 93.00                      | 7.94                          | 4.04          | 12.95              | 7.91                  |       |
| 12/10/2002 2:30                    | 14.39       | 57.90       | 29.70             | 92.70                      | 7.88                          | 4.14          | 8.17               | 7.91                  |       |
| 12/10/2002 3:00                    | 14.37       | 57.87       | 30.26             | 94.00                      | 7.97                          | 4.50          | 9.31               | 8.21                  |       |
| 12/10/2002 3:30                    | 14.39       | 57.91       | 30.93             | 94.70                      | 7.99                          | 4.78          | 5.39               | 8.81                  |       |
| 12/10/2002 4:00                    | 14.42       | 57.95       | 30.78             | 94.60                      | 7.99                          | 5.15          | 7.11               | 7.21                  |       |
| 12/10/2002 4:30                    | 14.41       | 57.94       | 30.86             | 94.20                      | 7.96                          | 5.34          | 2.23               | 8.11                  |       |
| 12/10/2002 5:00                    | 14.41       | 57.94       | 31.00             | 93.20                      | 7.86                          | 5.20          | 0.61               | 7.21                  |       |
| 12/10/2002 5:30                    | 14.42       | 57.95       | 30.99             | 92.60                      | 7.81                          | 5.15          | 1.75               | 8.91                  |       |
| 12/10/2002 6:00                    | 14.44       | 57.99       | 30.79             | 92.70                      | 7.83                          | 4.90          | 1.37               | 6.61                  |       |
| 12/10/2002 6:30                    | 14.46       | 58.03       | 30.67             | 92.70                      | 7.83                          | 4.84          | 2.80               | 6.51                  |       |
| 12/10/2002 7:00                    | 14.50       | 58.10       | 29.85             | 92.80                      | 7.87                          | 4.66          | 1.27               | 6.41                  |       |
| 12/10/2002 7:30                    | 14.57       | 58.22       | 29.42             | 92.10                      | 7.82                          | 4.31          | 2.31               | 6.21                  |       |
| 12/10/2002 8:00                    | 14.68       | 58.42       | 28.74             | 91.80                      | 7.81                          | 3.97          | 1.45               | 5.31                  |       |
| 12/10/2002 8:30                    | 14.71       | 58.48       | 29.10             | 90.60                      | 7.69                          | 3.74          | 1.54               | 5.01                  |       |
| 12/10/2002 9:00                    | 14.79       | 58.63       | 27.93             | 90.60                      | 7.73                          | 3.44          | 3.16               | 5.21                  |       |
| 12/10/2002 9:30                    | 14.86       | 58.75       | 27.57             | 90.50                      | 7.73                          | 3.12          | 2.78               | 5.31                  |       |
| 12/10/2002 10:00                   | 14.97       | 58.95       | 26.86             | 91.40                      | 7.82                          | 2.86          | 2.78               | 5.11                  |       |
| 12/10/2002 10:30                   | 15.02       | 59.04       | 26.94             | 92.50                      | 7.90                          | 2.50          | 2.49               | 5.51                  |       |
| 12/10/2002 11:00                   | 15.20       | 59.36       | 26.50             | 94.30                      | 8.05                          | 2.27          | 2.67               | 5.51                  |       |
| 12/10/2002 11:30                   | 15.31       | 59.55       | 26.45             | 95.50                      | 8.14                          | 2.13          | 2.48               | 4.91                  |       |
| 12/10/2002 12:00                   | 15.43       | 59.78       | 26.46             | 97.70                      | 8.31                          | 2.24          | 1.62               | 5.11                  |       |
| 12/10/2002 12:30                   | 15.44       | 59.79       | 26.28             | 96.70                      | 8.23                          | 2.42          | 3.62               | 5.00                  |       |
| 12/10/2002 13:00                   | 15.53       | 59.96       | 26.57             | 98.20                      | 8.33                          | 2.53          | 2.66               | 5.40                  |       |
| 12/10/2002 13:30                   | 15.54       | 59.97       | 26.79             | 98.40                      | 8.33                          | 2.91          | 1.99               | 5.60                  |       |
| 12/10/2002 14:00                   | 15.42       | 59.76       | 27.35             | 96.00                      | 8.12                          | 3.22          | 2.47               | 5.70                  |       |
| 12/10/2002 14:30                   | 15.32       | 59.57       | 27.62             | 95.20                      | 8.06                          | 3.36          | 2.27               | 5.10                  |       |
| 12/10/2002 15:00                   | 15.38       | 59.68       | 27.71             | 96.50                      | 8.15                          | 3.66          | 1.22               | 5.40                  |       |
| 12/10/2002 15:30                   | 15.14       | 59.25       | 28.70             | 96.10                      | 8.11                          | 3.98          | 2.93               | 6.40                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/10/2002 16:00                   | 14.97       | 58.95       | 29.82             | 95.10                      | 7.99                          | 4.25          | 1.89               | 7.30                  |       |
| 12/10/2002 16:30                   | 15.07       | 59.12       | 30.16             | 96.10                      | 8.04                          | 4.39          | 1.50               | 8.20                  |       |
| 12/10/2002 17:00                   | 15.11       | 59.19       | 30.31             | 96.90                      | 8.10                          | 4.56          | 2.93               | 9.10                  |       |
| 12/10/2002 17:30                   | 15.13       | 59.24       | 30.34             | 97.00                      | 8.10                          | 4.72          | 2.83               | 8.40                  |       |
| 12/10/2002 18:00                   | 15.13       | 59.23       | 30.43             | 96.30                      | 8.04                          | 4.85          | 0.73               | 9.40                  |       |
| 12/10/2002 18:30                   | 14.99       | 58.99       | 30.65             | 94.00                      | 7.85                          | 5.03          | 0.92               | 7.80                  |       |
| 12/10/2002 19:00                   | 14.97       | 58.95       | 30.73             | 92.70                      | 7.75                          | 5.04          | 2.06               | 7.50                  |       |
| 12/10/2002 19:30                   | 14.97       | 58.95       | 30.72             | 90.20                      | 7.54                          | 5.00          | 0.82               | 5.80                  |       |
| 12/10/2002 20:00                   | 15.04       | 59.08       | 30.61             | 91.30                      | 7.63                          | 4.85          | 2.34               | 6.20                  |       |
| 12/10/2002 20:30                   | 15.19       | 59.35       | 29.87             | 94.80                      | 7.93                          | 4.67          | 2.43               | 7.10                  |       |
| 12/10/2002 21:00                   | 15.03       | 59.05       | 30.71             | 89.70                      | 7.49                          | 4.50          | 2.62               | 7.10                  |       |
| 12/10/2002 21:30                   | 15.33       | 59.59       | 29.57             | 94.90                      | 7.93                          | 4.35          | 1.76               | 6.20                  |       |
| 12/10/2002 22:00                   | 15.17       | 59.31       | 30.19             | 90.70                      | 7.57                          | 4.27          | 3.28               | 6.40                  |       |
| 12/10/2002 22:30                   | 15.18       | 59.33       | 30.34             | 91.70                      | 7.65                          | 4.07          | 2.13               | 6.60                  |       |
| 12/10/2002 23:00                   | 15.37       | 59.67       | 29.70             | 92.80                      | 7.74                          | 4.05          | 1.18               | 5.20                  |       |
| 12/10/2002 23:30                   | 15.38       | 59.69       | 29.31             | 93.00                      | 7.77                          | 4.09          | 1.65               | 6.70                  |       |
| 12/11/2002 0:00                    | 15.34       | 59.61       | 29.51             | 93.20                      | 7.79                          | 4.31          | 1.18               | 6.30                  |       |
| 12/11/2002 0:30                    | 15.34       | 59.61       | 29.55             | 89.80                      | 7.50                          | 4.14          | 1.84               | 5.00                  |       |
| 12/11/2002 1:00                    | 15.33       | 59.59       | 29.60             | 92.40                      | 7.72                          | 4.20          | 1.74               | 6.40                  |       |
| 12/11/2002 1:30                    | 15.30       | 59.54       | 29.62             | 91.80                      | 7.67                          | 4.39          | 2.12               | 6.60                  |       |
| 12/11/2002 2:00                    | 15.32       | 59.58       | 29.82             | 93.60                      | 7.81                          | 4.64          | 2.68               | 6.50                  |       |
| 12/11/2002 2:30                    | 15.29       | 59.52       | 29.92             | 93.30                      | 7.78                          | 4.73          | 6.28               | 6.60                  |       |
| 12/11/2002 3:00                    | 15.24       | 59.44       | 30.23             | 93.20                      | 7.77                          | 4.92          | 7.03               | 7.60                  |       |
| 12/11/2002 3:30                    | 15.22       | 59.40       | 30.29             | 92.30                      | 7.69                          | 4.96          | 8.55               | 6.70                  |       |
| 12/11/2002 4:00                    | 15.23       | 59.41       | 30.25             | 93.10                      | 7.76                          | 4.91          | 15.26              | 7.99                  |       |
| 12/11/2002 4:30                    | 15.24       | 59.44       | 30.10             | 91.90                      | 7.67                          | 4.89          | 23.12              | 8.69                  |       |
| 12/11/2002 5:00                    | 15.24       | 59.44       | 30.06             | 92.20                      | 7.69                          | 4.86          | 28.12              | 10.19                 |       |
| 12/11/2002 5:30                    | 15.19       | 59.34       | 30.29             | 91.90                      | 7.67                          | 4.94          | 27.27              | 9.99                  |       |
| 12/11/2002 6:00                    | 15.15       | 59.27       | 30.41             | 91.00                      | 7.59                          | 4.99          | 31.33              | 10.69                 |       |
| 12/11/2002 6:30                    | 15.16       | 59.28       | 30.01             | 90.10                      | 7.54                          | 4.83          | 32.74              | 9.79                  |       |
| 12/11/2002 7:00                    | 15.22       | 59.39       | 29.48             | 89.40                      | 7.50                          | 4.62          | 40.58              | 10.49                 |       |
| 12/11/2002 7:30                    | 15.20       | 59.36       | 29.34             | 89.00                      | 7.47                          | 4.48          | 31.02              | 9.89                  |       |
| 12/11/2002 8:00                    | 15.19       | 59.35       | 29.16             | 89.70                      | 7.53                          | 4.14          | 35.64              | 10.69                 |       |
| 12/11/2002 8:30                    | 15.23       | 59.42       | 28.83             | 91.80                      | 7.72                          | 3.90          | 34.03              | 11.39                 |       |
| 12/11/2002 9:00                    | 15.26       | 59.47       | 28.46             | 91.90                      | 7.74                          | 3.64          | 21.92              | 10.89                 |       |
| 12/11/2002 9:30                    | 15.33       | 59.60       | 28.04             | 92.00                      | 7.76                          | 3.38          | 20.12              | 11.99                 |       |
| 12/11/2002 10:00                   | 15.50       | 59.90       | 27.27             | 91.50                      | 7.72                          | 3.14          | 24.27              | 8.69                  |       |
| 12/11/2002 10:30                   | 15.72       | 60.30       | 26.60             | 92.00                      | 7.77                          | 2.92          | 15.39              | 6.99                  |       |
| 12/11/2002 11:00                   | 15.92       | 60.65       | 26.18             | 94.20                      | 7.95                          | 2.78          | 9.24               | 6.09                  |       |
| 12/11/2002 11:30                   | 16.12       | 61.02       | 25.90             | 96.10                      | 8.08                          | 2.64          | 4.42               | 4.49                  |       |
| 12/11/2002 12:00                   | 16.32       | 61.38       | 25.76             | 97.60                      | 8.19                          | 2.52          | 3.00               | 4.79                  |       |
| 12/11/2002 12:30                   | 16.47       | 61.64       | 25.88             | 101.80                     | 8.51                          | 2.52          | 4.32               | 5.09                  |       |
| 12/11/2002 13:00                   | 16.58       | 61.84       | 26.19             | 105.30                     | 8.76                          | 2.59          | 4.32               | 4.79                  |       |
| 12/11/2002 13:30                   | 16.99       | 62.58       | 26.48             | 111.80                     | 9.21                          | 2.70          | 5.92               | 5.49                  |       |
| 12/11/2002 14:00                   | 16.98       | 62.56       | 26.57             | 110.50                     | 9.10                          | 2.77          | 4.22               | 5.59                  |       |
| 12/11/2002 14:30                   | 16.89       | 62.40       | 27.00             | 109.70                     | 9.03                          | 2.93          | 6.20               | 5.49                  |       |
| 12/11/2002 15:00                   | 16.79       | 62.23       | 26.91             | 108.00                     | 8.91                          | 3.06          | 8.08               | 6.79                  |       |
| 12/11/2002 15:30                   | 16.59       | 61.86       | 26.80             | 105.50                     | 8.74                          | 3.28          | 6.57               | 7.09                  |       |
| 12/11/2002 16:00                   | 16.49       | 61.68       | 26.89             | 103.20                     | 8.57                          | 3.41          | 6.00               | 6.59                  |       |
| 12/11/2002 16:30                   | 16.44       | 61.59       | 27.53             | 100.90                     | 8.35                          | 3.56          | 14.57              | 7.09                  |       |
| 12/11/2002 17:00                   | 16.41       | 61.54       | 27.82             | 99.90                      | 8.26                          | 3.72          | 10.23              | 7.79                  |       |
| 12/11/2002 17:30                   | 16.38       | 61.48       | 28.10             | 98.30                      | 8.12                          | 3.92          | 10.79              | 7.99                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/11/2002 18:00                   | 16.26       | 61.26       | 28.14             | 98.30                      | 8.13                          | 4.10          | 6.27               | 8.59                  |       |
| 12/11/2002 18:30                   | 16.13       | 61.04       | 28.13             | 98.50                      | 8.17                          | 4.18          | 10.31              | 9.49                  |       |
| 12/11/2002 19:00                   | 16.01       | 60.82       | 28.75             | 100.50                     | 8.33                          | 4.26          | 6.26               | 10.29                 |       |
| 12/11/2002 19:30                   | 15.93       | 60.67       | 28.66             | 100.10                     | 8.31                          | 4.28          | 6.35               | 8.38                  |       |
| 12/11/2002 20:00                   | 15.94       | 60.70       | 28.85             | 98.70                      | 8.18                          | 4.26          | 5.69               | 8.28                  |       |
| 12/11/2002 20:30                   | 15.88       | 60.58       | 28.44             | 98.10                      | 8.16                          | 4.20          | 3.80               | 8.28                  |       |
| 12/11/2002 21:00                   | 15.92       | 60.66       | 28.51             | 95.60                      | 7.94                          | 4.11          | 5.49               | 6.88                  |       |
| 12/11/2002 21:30                   | 15.81       | 60.45       | 28.37             | 96.00                      | 8.00                          | 3.98          | 3.14               | 6.68                  |       |
| 12/11/2002 22:00                   | 15.87       | 60.57       | 27.96             | 94.80                      | 7.91                          | 3.84          | 2.57               | 5.58                  |       |
| 12/11/2002 22:30                   | 15.90       | 60.62       | 27.78             | 93.60                      | 7.82                          | 3.70          | 4.45               | 5.78                  |       |
| 12/11/2002 23:00                   | 15.82       | 60.48       | 27.64             | 93.70                      | 7.85                          | 3.53          | 2.19               | 5.68                  |       |
| 12/11/2002 23:30                   | 15.76       | 60.36       | 27.47             | 93.60                      | 7.85                          | 3.46          | 3.03               | 5.58                  |       |
| 12/12/2002 0:00                    | 15.67       | 60.21       | 27.33             | 93.50                      | 7.87                          | 3.29          | 2.37               | 5.88                  |       |
| 12/12/2002 0:30                    | 15.62       | 60.12       | 27.17             | 93.80                      | 7.91                          | 3.23          | 2.46               | 6.38                  |       |
| 12/12/2002 1:00                    | 15.58       | 60.04       | 27.12             | 94.80                      | 8.00                          | 3.17          | 2.36               | 6.48                  |       |
| 12/12/2002 1:30                    | 15.72       | 60.30       | 27.79             | 92.60                      | 7.76                          | 3.17          | 5.46               | 6.28                  |       |
| 12/12/2002 2:00                    | 15.63       | 60.14       | 27.51             | 93.10                      | 7.83                          | 3.15          | 3.58               | 5.38                  |       |
| 12/12/2002 2:30                    | 15.46       | 59.82       | 27.46             | 93.20                      | 7.87                          | 3.20          | 1.88               | 6.08                  |       |
| 12/12/2002 3:00                    | 15.38       | 59.69       | 27.43             | 91.20                      | 7.71                          | 3.25          | 2.63               | 5.78                  |       |
| 12/12/2002 3:30                    | 15.38       | 59.68       | 27.66             | 90.10                      | 7.61                          | 3.30          | 2.91               | 4.98                  |       |
| 12/12/2002 4:00                    | 15.37       | 59.66       | 28.36             | 89.60                      | 7.54                          | 3.44          | 3.19               | 6.28                  |       |
| 12/12/2002 4:30                    | 15.39       | 59.71       | 28.89             | 91.20                      | 7.64                          | 3.63          | 3.47               | 6.78                  |       |
| 12/12/2002 5:00                    | 15.32       | 59.57       | 28.73             | 91.40                      | 7.68                          | 3.78          | 2.90               | 7.18                  |       |
| 12/12/2002 5:30                    | 15.28       | 59.51       | 28.76             | 91.90                      | 7.73                          | 3.87          | 4.03               | 6.78                  |       |
| 12/12/2002 6:00                    | 15.38       | 59.69       | 29.40             | 89.10                      | 7.45                          | 4.01          | 5.15               | 6.88                  |       |
| 12/12/2002 6:30                    | 15.36       | 59.64       | 29.50             | 88.00                      | 7.36                          | 4.03          | 3.27               | 6.18                  |       |
| 12/12/2002 7:00                    | 15.34       | 59.62       | 29.97             | 88.60                      | 7.38                          | 4.12          | 6.74               | 6.58                  |       |
| 12/12/2002 7:30                    | 15.28       | 59.51       | 29.99             | 87.30                      | 7.28                          | 4.02          | 2.98               | 14.08                 |       |
| 12/12/2002 8:00                    | 15.24       | 59.44       | 29.22             | 87.40                      | 7.33                          | 3.87          | 2.79               | 10.28                 |       |
| 12/12/2002 8:30                    | 14.91       | 58.83       | 28.60             | 88.70                      | 7.52                          | 3.76          | 0.91               | 4.78                  |       |
| 12/12/2002 9:00                    | 14.74       | 58.53       | 28.45             | 89.50                      | 7.62                          | 3.55          | 1.29               | 5.08                  |       |
| 12/12/2002 9:30                    | 15.31       | 59.55       | 30.09             | 90.00                      | 7.50                          | 3.42          | 2.88               | 6.68                  |       |
| 12/12/2002 10:00                   | 15.31       | 59.55       | 29.92             | 94.00                      | 7.84                          | 3.31          | 1.56               | 7.58                  |       |
| 12/12/2002 10:30                   | 15.33       | 59.60       | 29.98             | 96.80                      | 8.07                          | 3.20          | 0.81               | 5.47                  |       |
| 12/12/2002 11:00                   | 15.37       | 59.67       | 29.83             | 98.10                      | 8.18                          | 3.00          | 0.15               | 3.77                  |       |
| 12/12/2002 11:30                   | 14.87       | 58.76       | 27.94             | 92.80                      | 7.90                          | 2.95          | 0.62               | 4.27                  |       |
| 12/12/2002 12:00                   | 15.23       | 59.42       | 28.71             | 98.90                      | 8.32                          | 2.79          | 0.62               | 4.47                  |       |
| 12/12/2002 12:30                   | 14.94       | 58.89       | 27.67             | 94.00                      | 8.01                          | 2.60          | 0.33               | 4.27                  |       |
| 12/12/2002 13:00                   | 15.32       | 59.57       | 28.50             | 110.50                     | 9.29                          | 2.44          | -0.61              | 3.57                  |       |
| 12/12/2002 13:30                   | 15.20       | 59.36       | 26.62             | 109.70                     | 9.36                          | 2.38          | -0.14              | 3.37                  |       |
| 12/12/2002 14:00                   | 15.10       | 59.18       | 27.30             | 110.40                     | 9.40                          | 2.44          | 0.70               | 5.07                  |       |
| 12/12/2002 14:30                   | 15.29       | 59.53       | 29.12             | 99.90                      | 8.38                          | 2.44          | 1.73               | 6.87                  |       |
| 12/12/2002 15:00                   | 15.19       | 59.34       | 28.70             | 106.00                     | 8.93                          | 2.63          | 0.51               | 6.37                  |       |
| 12/12/2002 15:30                   | 15.14       | 59.26       | 28.96             | 99.60                      | 8.39                          | 2.83          | 0.32               | 6.27                  |       |
| 12/12/2002 16:00                   | 15.11       | 59.19       | 28.77             | 97.50                      | 8.23                          | 3.10          | 1.62               | 6.07                  |       |
| 12/12/2002 16:30                   | 15.17       | 59.30       | 29.63             | 93.70                      | 7.85                          | 3.26          | 1.53               | 6.77                  |       |
| 12/12/2002 17:00                   | 15.12       | 59.21       | 29.58             | 92.80                      | 7.79                          | 3.36          | 1.15               | 7.87                  |       |
| 12/12/2002 17:30                   | 15.07       | 59.12       | 29.76             | 91.50                      | 7.68                          | 3.59          | 2.46               | 7.17                  |       |
| 12/12/2002 18:00                   | 15.01       | 59.02       | 29.72             | 92.20                      | 7.75                          | 3.73          | 1.99               | 6.27                  |       |
| 12/12/2002 18:30                   | 15.03       | 59.05       | 30.65             | 90.40                      | 7.55                          | 3.85          | 1.80               | 7.07                  |       |
| 12/12/2002 19:00                   | 15.03       | 59.05       | 31.04             | 90.80                      | 7.57                          | 4.01          | 2.17               | 8.27                  |       |
| 12/12/2002 19:30                   | 14.99       | 58.99       | 31.02             | 89.60                      | 7.47                          | 4.03          | 1.60               | 7.17                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/12/2002 20:00                   | 14.90       | 58.82       | 30.71             | 91.50                      | 7.66                          | 4.03          | 1.51               | 8.47                  |       |
| 12/12/2002 20:30                   | 14.86       | 58.75       | 30.73             | 91.70                      | 7.68                          | 3.96          | 1.04               | 7.87                  |       |
| 12/12/2002 21:00                   | 14.85       | 58.73       | 30.68             | 89.50                      | 7.50                          | 3.87          | 0.29               | 6.17                  |       |
| 12/12/2002 21:30                   | 14.82       | 58.68       | 30.56             | 88.10                      | 7.39                          | 3.97          | -0.09              | 5.97                  |       |
| 12/12/2002 22:00                   | 14.73       | 58.52       | 30.39             | 92.00                      | 7.74                          | 4.19          | 1.96               | 6.87                  |       |
| 12/12/2002 22:30                   | 14.74       | 58.53       | 30.40             | 89.20                      | 7.51                          | 4.14          | 0.38               | 5.97                  |       |
| 12/12/2002 23:00                   | 14.79       | 58.62       | 30.48             | 91.40                      | 7.67                          | 4.37          | 2.98               | 7.17                  |       |
| 12/12/2002 23:30                   | 14.77       | 58.58       | 30.35             | 92.20                      | 7.76                          | 4.01          | 2.98               | 6.17                  |       |
| 12/13/2002 0:00                    | 14.75       | 58.55       | 29.08             | 91.10                      | 7.73                          | 3.18          | 4.56               | 5.27                  |       |
| 12/13/2002 0:30                    | 14.72       | 58.50       | 28.25             | 92.70                      | 7.90                          | 3.11          | 1.67               | 5.47                  |       |
| 12/13/2002 1:00                    | 14.63       | 58.34       | 27.33             | 94.00                      | 8.07                          | 3.02          | 1.39               | 5.37                  |       |
| 12/13/2002 1:30                    | 14.62       | 58.32       | 27.23             | 94.00                      | 8.08                          | 2.91          | 1.29               | 5.07                  |       |
| 12/13/2002 2:00                    | 14.62       | 58.31       | 26.87             | 93.60                      | 8.07                          | 2.79          | 3.43               | 4.76                  |       |
| 12/13/2002 2:30                    | 14.72       | 58.50       | 27.67             | 93.20                      | 7.98                          | 2.90          | 5.48               | 5.76                  |       |
| 12/13/2002 3:00                    | 14.93       | 58.88       | 27.74             | 94.20                      | 8.02                          | 3.07          | 21.96              | 8.56                  |       |
| 12/13/2002 3:30                    | 14.98       | 58.96       | 27.87             | 93.90                      | 7.99                          | 3.31          | 28.47              | 8.86                  |       |
| 12/13/2002 4:00                    | 14.99       | 58.99       | 27.88             | 95.40                      | 8.11                          | 3.71          | 17.20              | 8.56                  |       |
| 12/13/2002 4:30                    | 14.97       | 58.94       | 28.22             | 94.50                      | 8.02                          | 4.06          | 12.63              | 8.26                  |       |
| 12/13/2002 5:00                    | 14.96       | 58.93       | 28.74             | 94.40                      | 7.99                          | 4.43          | 11.23              | 7.86                  |       |
| 12/13/2002 5:30                    | 14.95       | 58.91       | 28.81             | 94.20                      | 7.97                          | 4.41          | 10.95              | 7.86                  |       |
| 12/13/2002 6:00                    | 15.00       | 59.00       | 28.82             | 94.50                      | 7.98                          | 4.86          | 11.69              | 8.16                  |       |
| 12/13/2002 6:30                    | 15.09       | 59.16       | 30.39             | 93.60                      | 7.82                          | 5.40          | 15.59              | 9.16                  |       |
| 12/13/2002 7:00                    | 15.15       | 59.27       | 30.63             | 94.50                      | 7.87                          | 5.58          | 16.61              | 10.76                 |       |
| 12/13/2002 7:30                    | 15.21       | 59.37       | 30.60             | 94.00                      | 7.82                          | 5.58          | 16.60              | 9.36                  |       |
| 12/13/2002 8:00                    | 15.21       | 59.38       | 30.34             | 93.70                      | 7.81                          | 5.73          | 12.69              | 9.56                  |       |
| 12/13/2002 8:30                    | 15.25       | 59.45       | 30.02             | 92.10                      | 7.69                          | 5.67          | 16.50              | 9.96                  |       |
| 12/13/2002 9:00                    | 15.23       | 59.41       | 29.85             | 92.30                      | 7.72                          | 5.84          | 16.12              | 8.86                  |       |
| 12/13/2002 9:30                    | 15.23       | 59.41       | 30.03             | 92.40                      | 7.72                          | 5.79          | 12.49              | 7.96                  |       |
| 12/13/2002 10:00                   | 15.25       | 59.45       | 29.92             | 93.30                      | 7.80                          | 5.50          | 19.55              | 9.96                  |       |
| 12/13/2002 10:30                   | 15.29       | 59.53       | 29.82             | 94.60                      | 7.90                          | 5.18          | 9.79               | 8.16                  |       |
| 12/13/2002 11:00                   | 15.39       | 59.71       | 29.57             | 94.30                      | 7.87                          | 4.89          | 12.01              | 8.76                  |       |
| 12/13/2002 11:30                   | 15.52       | 59.93       | 29.38             | 94.20                      | 7.86                          | 4.68          | 16.84              | 8.86                  |       |
| 12/13/2002 12:00                   | 15.59       | 60.07       | 29.38             | 95.60                      | 7.96                          | 4.37          | 10.98              | 8.76                  |       |
| 12/13/2002 12:30                   | 15.68       | 60.22       | 29.28             | 96.10                      | 7.99                          | 4.17          | 16.27              | 7.96                  |       |
| 12/13/2002 13:00                   | 15.78       | 60.40       | 29.16             | 97.00                      | 8.06                          | 3.95          | 8.93               | 9.16                  |       |
| 12/13/2002 13:30                   | 15.85       | 60.53       | 29.09             | 97.60                      | 8.09                          | 4.06          | 12.27              | 8.96                  |       |
| 12/13/2002 14:00                   | 15.89       | 60.60       | 29.11             | 96.40                      | 7.98                          | 4.15          | 15.05              | 8.96                  |       |
| 12/13/2002 14:30                   | 16.06       | 60.90       | 29.34             | 99.80                      | 8.23                          | 3.99          | 8.36               | 7.96                  |       |
| 12/13/2002 15:00                   | 16.15       | 61.07       | 29.00             | 98.20                      | 8.10                          | 3.88          | 9.75               | 7.76                  |       |
| 12/13/2002 15:30                   | 16.32       | 61.38       | 29.09             | 100.10                     | 8.23                          | 3.67          | 10.49              | 9.36                  |       |
| 12/13/2002 16:00                   | 16.33       | 61.40       | 28.84             | 98.60                      | 8.11                          | 3.70          | 17.81              | 7.46                  |       |
| 12/13/2002 16:30                   | 16.36       | 61.44       | 29.08             | 100.50                     | 8.25                          | 4.03          | 9.00               | 7.76                  |       |
| 12/13/2002 17:00                   | 16.28       | 61.30       | 29.40             | 103.80                     | 8.52                          | 4.36          | 14.55              | 10.16                 |       |
| 12/13/2002 17:30                   | 16.16       | 61.09       | 29.52             | 102.80                     | 8.45                          | 4.42          | 17.51              | 11.05                 |       |
| 12/13/2002 18:00                   | 16.13       | 61.04       | 29.64             | 100.90                     | 8.29                          | 4.67          | 17.04              | 10.05                 |       |
| 12/13/2002 18:30                   | 16.04       | 60.88       | 29.77             | 99.80                      | 8.22                          | 4.93          | 24.45              | 11.65                 |       |
| 12/13/2002 19:00                   | 15.91       | 60.63       | 29.88             | 98.50                      | 8.12                          | 5.09          | 22.22              | 12.55                 |       |
| 12/13/2002 19:30                   | 15.92       | 60.66       | 29.77             | 97.10                      | 8.01                          | 5.14          | 32.58              | 12.85                 |       |
| 12/13/2002 20:00                   | 15.84       | 60.51       | 29.86             | 96.70                      | 7.98                          | 5.26          | 40.53              | 13.75                 |       |
| 12/13/2002 20:30                   | 15.81       | 60.45       | 29.96             | 95.50                      | 7.89                          | 5.10          | 42.19              | 12.45                 |       |
| 12/13/2002 21:00                   | 15.79       | 60.42       | 29.85             | 94.90                      | 7.84                          | 5.15          | 38.85              | 11.45                 |       |
| 12/13/2002 21:30                   | 15.74       | 60.33       | 29.89             | 94.00                      | 7.77                          | 5.03          | 31.53              | 11.25                 |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/13/2002 22:00                   | 15.76       | 60.37       | 29.28             | 94.20                      | 7.82                          | 5.01          | 20.61              | 8.65                  |       |
| 12/13/2002 22:30                   | 15.76       | 60.37       | 28.83             | 93.80                      | 7.81                          | 5.00          | 28.83              | 10.45                 |       |
| 12/13/2002 23:00                   | 15.69       | 60.25       | 28.98             | 93.90                      | 7.82                          | 5.00          | 31.60              | 9.55                  |       |
| 12/13/2002 23:30                   | 15.58       | 60.04       | 28.78             | 93.20                      | 7.79                          | 4.76          | 39.73              | 10.85                 |       |
| 12/14/2002 0:00                    | 15.56       | 60.00       | 28.61             | 91.40                      | 7.65                          | 4.45          | 41.10              | 11.05                 |       |
| 12/14/2002 0:30                    | 15.54       | 59.98       | 28.48             | 91.30                      | 7.64                          | 4.08          | 22.43              | 10.15                 |       |
| 12/14/2002 1:00                    | 15.49       | 59.88       | 29.07             | 93.70                      | 7.83                          | 3.93          | 35.91              | 10.15                 |       |
| 12/14/2002 1:30                    | 15.49       | 59.89       | 28.73             | 94.30                      | 7.90                          | 3.72          | 28.51              | 9.75                  |       |
| 12/14/2002 2:00                    | 15.49       | 59.89       | 28.68             | 94.40                      | 7.90                          | 3.44          | 30.63              | 9.45                  |       |
| 12/14/2002 2:30                    | 15.43       | 59.77       | 28.47             | 93.80                      | 7.88                          | 3.24          | 28.03              | 9.35                  |       |
| 12/14/2002 3:00                    | 15.33       | 59.60       | 28.39             | 92.10                      | 7.75                          | 3.16          | 25.07              | 9.75                  |       |
| 12/14/2002 3:30                    | 15.26       | 59.46       | 27.66             | 91.80                      | 7.77                          | 2.93          | 25.53              | 8.25                  |       |
| 12/14/2002 4:00                    | 15.28       | 59.51       | 26.45             | 91.30                      | 7.79                          | 2.79          | 31.06              | 9.05                  |       |
| 12/14/2002 4:30                    | 15.07       | 59.12       | 26.68             | 90.30                      | 7.72                          | 2.69          | 26.62              | 8.85                  |       |
| 12/14/2002 5:00                    | 14.84       | 58.71       | 27.74             | 91.20                      | 7.78                          | 2.71          | 37.31              | 8.85                  |       |
| 12/14/2002 5:30                    | 14.84       | 58.72       | 26.64             | 92.80                      | 7.98                          | 2.81          | 36.66              | 9.95                  |       |
| 12/14/2002 6:00                    | 14.73       | 58.51       | 26.64             | 93.20                      | 8.03                          | 2.80          | 42.09              | 10.85                 |       |
| 12/14/2002 6:30                    | 14.57       | 58.23       | 27.48             | 93.40                      | 8.03                          | 2.88          | 53.33              | 11.25                 |       |
| 12/14/2002 7:00                    | 14.49       | 58.08       | 26.92             | 93.50                      | 8.08                          | 2.89          | 45.58              | 11.35                 |       |
| 12/14/2002 7:30                    | 14.38       | 57.89       | 26.65             | 92.60                      | 8.03                          | 2.87          | 84.01              | 13.85                 |       |
| 12/14/2002 8:00                    | 14.12       | 57.42       | 27.51             | 93.60                      | 8.12                          | 3.00          | 65.00              | 14.65                 |       |
| 12/14/2002 8:30                    | 14.19       | 57.55       | 27.61             | 93.90                      | 8.13                          | 3.26          | 83.70              | 16.64                 |       |
| 12/14/2002 9:00                    | 14.14       | 57.46       | 27.81             | 94.30                      | 8.16                          | 3.40          | 74.93              | 14.54                 |       |
| 12/14/2002 9:30                    | 14.25       | 57.65       | 27.26             | 94.00                      | 8.14                          | 3.46          | 76.75              | 14.34                 |       |
| 12/14/2002 10:00                   | 14.26       | 57.66       | 26.91             | 94.00                      | 8.16                          | 3.42          | 71.03              | 14.44                 |       |
| 12/14/2002 10:30                   | 14.26       | 57.67       | 26.37             | 94.00                      | 8.19                          | 3.55          | 70.55              | 13.84                 |       |
| 12/14/2002 11:00                   | 14.21       | 57.57       | 25.64             | 94.50                      | 8.27                          | 3.58          | 63.54              | 14.44                 |       |
| 12/14/2002 11:30                   | 14.19       | 57.55       | 25.22             | 94.60                      | 8.31                          | 3.59          | 74.94              | 13.54                 |       |
| 12/14/2002 12:00                   | 14.19       | 57.55       | 25.19             | 94.70                      | 8.32                          | 3.60          | 74.37              | 13.84                 |       |
| 12/14/2002 12:30                   | 14.17       | 57.50       | 25.22             | 94.50                      | 8.31                          | 3.54          | 69.29              | 13.44                 |       |
| 12/14/2002 13:00                   | 14.14       | 57.45       | 24.93             | 94.50                      | 8.32                          | 3.43          | 52.99              | 13.44                 |       |
| 12/14/2002 13:30                   | 14.18       | 57.52       | 24.42             | 94.00                      | 8.30                          | 3.33          | 70.83              | 13.24                 |       |
| 12/14/2002 14:00                   | 14.15       | 57.47       | 24.12             | 94.00                      | 8.32                          | 3.22          | 59.22              | 12.14                 |       |
| 12/14/2002 14:30                   | 14.13       | 57.43       | 23.81             | 94.30                      | 8.36                          | 3.18          | 50.57              | 10.94                 |       |
| 12/14/2002 15:00                   | 14.18       | 57.52       | 23.39             | 93.80                      | 8.33                          | 3.10          | 69.40              | 10.64                 |       |
| 12/14/2002 15:30                   | 14.15       | 57.47       | 23.03             | 94.00                      | 8.37                          | 3.05          | 56.33              | 11.34                 |       |
| 12/14/2002 16:00                   | 14.11       | 57.39       | 22.73             | 94.90                      | 8.48                          | 3.11          | 69.74              | 11.84                 |       |
| 12/14/2002 16:30                   | 14.01       | 57.22       | 22.56             | 95.40                      | 8.55                          | 3.15          | 50.43              | 11.24                 |       |
| 12/14/2002 17:00                   | 13.94       | 57.10       | 22.11             | 94.80                      | 8.53                          | 3.15          | 53.08              | 11.34                 |       |
| 12/14/2002 17:30                   | 13.86       | 56.95       | 21.79             | 94.50                      | 8.54                          | 3.18          | 57.20              | 11.54                 |       |
| 12/14/2002 18:00                   | 13.73       | 56.72       | 21.61             | 94.40                      | 8.56                          | 3.36          | 43.51              | 10.04                 |       |
| 12/14/2002 18:30                   | 13.70       | 56.66       | 21.51             | 94.10                      | 8.55                          | 3.45          | 48.18              | 11.04                 |       |
| 12/14/2002 19:00                   | 13.57       | 56.43       | 21.40             | 93.90                      | 8.56                          | 3.60          | 47.98              | 9.34                  |       |
| 12/14/2002 19:30                   | 13.61       | 56.50       | 21.52             | 93.90                      | 8.54                          | 3.81          | 59.91              | 10.44                 |       |
| 12/14/2002 20:00                   | 13.61       | 56.49       | 21.97             | 93.60                      | 8.49                          | 3.89          | 42.64              | 9.64                  |       |
| 12/14/2002 20:30                   | 13.47       | 56.25       | 21.96             | 93.40                      | 8.50                          | 4.03          | 31.43              | 8.44                  |       |
| 12/14/2002 21:00                   | 13.39       | 56.10       | 20.86             | 93.60                      | 8.59                          | 4.10          | 25.83              | 7.84                  |       |
| 12/14/2002 21:30                   | 13.36       | 56.05       | 19.93             | 93.70                      | 8.65                          | 4.08          | 22.89              | 7.94                  |       |
| 12/14/2002 22:00                   | 13.31       | 55.96       | 19.48             | 93.80                      | 8.69                          | 4.14          | 24.07              | 8.14                  |       |
| 12/14/2002 22:30                   | 13.21       | 55.78       | 19.29             | 93.30                      | 8.68                          | 4.02          | 33.97              | 8.64                  |       |
| 12/14/2002 23:00                   | 13.07       | 55.52       | 19.19             | 93.60                      | 8.74                          | 3.92          | 30.20              | 8.64                  |       |
| 12/14/2002 23:30                   | 12.96       | 55.32       | 18.96             | 93.00                      | 8.72                          | 3.73          | 26.07              | 8.04                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/15/2002 0:00                    | 12.84       | 55.12       | 18.45             | 93.10                      | 8.77                          | 3.66          | 26.52              | 8.53                  |       |
| 12/15/2002 0:30                    | 12.61       | 54.70       | 18.86             | 93.50                      | 8.84                          | 3.52          | 26.88              | 7.63                  |       |
| 12/15/2002 1:00                    | 12.47       | 54.45       | 18.29             | 93.20                      | 8.87                          | 3.28          | 33.65              | 8.03                  |       |
| 12/15/2002 1:30                    | 12.30       | 54.14       | 17.63             | 93.20                      | 8.93                          | 3.01          | 25.67              | 7.53                  |       |
| 12/15/2002 2:00                    | 12.10       | 53.78       | 17.08             | 93.20                      | 9.00                          | 2.78          | 25.58              | 7.73                  |       |
| 12/15/2002 2:30                    | 11.81       | 53.25       | 17.74             | 92.90                      | 8.99                          | 2.57          | 16.96              | 7.63                  |       |
| 12/15/2002 3:00                    | 11.65       | 52.97       | 18.80             | 92.20                      | 8.90                          | 2.30          | 15.86              | 7.13                  |       |
| 12/15/2002 3:30                    | 11.46       | 52.63       | 21.36             | 91.50                      | 8.72                          | 2.09          | 20.89              | 6.53                  |       |
| 12/15/2002 4:00                    | 11.25       | 52.25       | 22.13             | 91.50                      | 8.72                          | 1.96          | 14.75              | 6.63                  |       |
| 12/15/2002 4:30                    | 11.07       | 51.93       | 22.45             | 91.30                      | 8.72                          | 1.87          | 12.00              | 5.43                  |       |
| 12/15/2002 5:00                    | 10.82       | 51.48       | 23.75             | 91.10                      | 8.68                          | 1.80          | 10.80              | 5.93                  |       |
| 12/15/2002 5:30                    | 10.41       | 50.74       | 23.16             | 91.20                      | 8.80                          | 1.86          | 9.15               | 6.03                  |       |
| 12/15/2002 6:00                    | 10.44       | 50.79       | 23.32             | 91.30                      | 8.79                          | 1.95          | 11.25              | 5.93                  |       |
| 12/15/2002 6:30                    | 10.38       | 50.69       | 22.52             | 92.20                      | 8.94                          | 2.08          | 11.98              | 6.53                  |       |
| 12/15/2002 7:00                    | 10.24       | 50.43       | 22.72             | 93.50                      | 9.08                          | 2.20          | 15.81              | 7.03                  |       |
| 12/15/2002 7:30                    | 10.12       | 50.22       | 21.72             | 92.50                      | 9.06                          | 2.37          | 13.62              | 7.13                  |       |
| 12/15/2002 8:00                    | 10.42       | 50.76       | 20.84             | 92.50                      | 9.05                          | 2.53          | 14.34              | 7.13                  |       |
| 12/15/2002 8:30                    | 10.23       | 50.42       | 19.61             | 93.00                      | 9.22                          | 2.79          | 13.24              | 6.73                  |       |
| 12/15/2002 9:00                    | 10.88       | 51.58       | 17.32             | 93.40                      | 9.26                          | 3.06          | 18.08              | 7.13                  |       |
| 12/15/2002 9:30                    | 11.49       | 52.68       | 18.45             | 91.50                      | 8.88                          | 3.35          | 31.04              | 10.53                 |       |
| 12/15/2002 10:00                   | 11.62       | 52.92       | 18.21             | 91.80                      | 8.90                          | 3.55          | 23.82              | 10.03                 |       |
| 12/15/2002 10:30                   | 11.90       | 53.42       | 18.57             | 93.80                      | 9.02                          | 3.70          | 21.44              | 8.13                  |       |
| 12/15/2002 11:00                   | 12.78       | 55.00       | 22.90             | 89.40                      | 8.21                          | 3.83          | 16.32              | 8.83                  |       |
| 12/15/2002 11:30                   | 12.86       | 55.15       | 23.03             | 91.70                      | 8.40                          | 3.86          | 14.12              | 8.83                  |       |
| 12/15/2002 12:00                   | 12.87       | 55.17       | 23.32             | 92.80                      | 8.48                          | 3.89          | 17.59              | 8.93                  |       |
| 12/15/2002 12:30                   | 12.88       | 55.18       | 23.39             | 92.70                      | 8.46                          | 3.85          | 16.58              | 8.13                  |       |
| 12/15/2002 13:00                   | 13.31       | 55.96       | 25.09             | 86.20                      | 7.71                          | 3.73          | 16.39              | 9.43                  |       |
| 12/15/2002 13:30                   | 13.26       | 55.86       | 24.75             | 89.30                      | 8.02                          | 3.67          | 15.84              | 9.23                  |       |
| 12/15/2002 14:00                   | 13.22       | 55.80       | 24.81             | 85.90                      | 7.72                          | 3.51          | 10.18              | 7.23                  |       |
| 12/15/2002 14:30                   | 12.82       | 55.08       | 23.93             | 89.60                      | 8.17                          | 3.38          | 9.81               | 8.23                  |       |
| 12/15/2002 15:00                   | 12.92       | 55.26       | 24.39             | 89.80                      | 8.14                          | 3.34          | 11.26              | 8.03                  |       |
| 12/15/2002 15:30                   | 12.92       | 55.25       | 23.58             | 87.40                      | 7.97                          | 3.33          | 8.89               | 6.62                  |       |
| 12/15/2002 16:00                   | 12.96       | 55.32       | 23.97             | 84.80                      | 7.70                          | 3.34          | 9.25               | 6.62                  |       |
| 12/15/2002 16:30                   | 12.96       | 55.33       | 23.35             | 88.00                      | 8.02                          | 3.41          | 14.62              | 6.32                  |       |
| 12/15/2002 17:00                   | 12.75       | 54.95       | 21.92             | 89.20                      | 8.24                          | 3.42          | 14.07              | 6.72                  |       |
| 12/15/2002 17:30                   | 12.45       | 54.41       | 20.28             | 92.00                      | 8.64                          | 3.50          | 17.98              | 7.12                  |       |
| 12/15/2002 18:00                   | 12.79       | 55.03       | 22.93             | 86.70                      | 7.95                          | 3.59          | 12.97              | 6.12                  |       |
| 12/15/2002 18:30                   | 12.84       | 55.12       | 23.02             | 84.50                      | 7.74                          | 3.63          | 15.78              | 6.62                  |       |
| 12/15/2002 19:00                   | 12.65       | 54.77       | 24.39             | 87.80                      | 8.00                          | 3.82          | 14.32              | 7.32                  |       |
| 12/15/2002 19:30                   | 12.38       | 54.28       | 23.94             | 90.30                      | 8.31                          | 3.99          | 12.86              | 7.82                  |       |
| 12/15/2002 20:00                   | 12.21       | 53.98       | 20.47             | 94.10                      | 8.87                          | 4.21          | 9.58               | 7.12                  |       |
| 12/15/2002 20:30                   | 12.71       | 54.87       | 24.02             | 84.30                      | 7.69                          | 4.37          | 30.50              | 9.02                  |       |
| 12/15/2002 21:00                   | 12.65       | 54.77       | 22.53             | 86.10                      | 7.94                          | 4.51          | 18.67              | 7.52                  |       |
| 12/15/2002 21:30                   | 12.41       | 54.34       | 21.08             | 94.40                      | 8.83                          | 4.61          | 13.11              | 8.02                  |       |
| 12/15/2002 22:00                   | 12.67       | 54.81       | 22.74             | 93.50                      | 8.61                          | 4.69          | 9.56               | 7.72                  |       |
| 12/15/2002 22:30                   | 12.78       | 55.01       | 23.37             | 91.50                      | 8.37                          | 4.67          | 16.56              | 8.32                  |       |
| 12/15/2002 23:00                   | 13.04       | 55.48       | 25.05             | 85.20                      | 7.67                          | 4.64          | 20.82              | 9.32                  |       |
| 12/15/2002 23:30                   | 13.02       | 55.43       | 24.87             | 87.80                      | 7.93                          | 4.57          | 19.55              | 10.12                 |       |
| 12/16/2002 0:00                    | 13.12       | 55.62       | 26.01             | 84.40                      | 7.54                          | 4.28          | 14.72              | 9.02                  |       |
| 12/16/2002 0:30                    | 13.15       | 55.67       | 26.49             | 84.70                      | 7.55                          | 4.09          | 22.35              | 9.12                  |       |
| 12/16/2002 1:00                    | 13.17       | 55.71       | 26.47             | 81.50                      | 7.25                          | 3.81          | 16.98              | 7.32                  |       |
| 12/16/2002 1:30                    | 13.14       | 55.65       | 26.11             | 77.30                      | 6.90                          | 3.51          | 30.42              | 6.82                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/16/2002 2:00                    | 13.00       | 55.40       | 24.62             | 78.60                      | 7.10                          | 3.18          | 10.53              | 6.62                  |       |
| 12/16/2002 2:30                    | 12.96       | 55.32       | 24.43             | 80.40                      | 7.29                          | 2.92          | 7.26               | 5.92                  |       |
| 12/16/2002 3:00                    | 12.38       | 54.29       | 21.07             | 88.00                      | 8.23                          | 2.62          | 5.25               | 4.82                  |       |
| 12/16/2002 3:30                    | 11.63       | 52.93       | 19.69             | 91.20                      | 8.75                          | 2.33          | 5.61               | 5.72                  |       |
| 12/16/2002 4:00                    | 11.19       | 52.15       | 18.30             | 92.70                      | 9.07                          | 2.06          | 5.97               | 5.92                  |       |
| 12/16/2002 4:30                    | 11.06       | 51.90       | 18.03             | 93.00                      | 9.13                          | 1.92          | 5.15               | 5.52                  |       |
| 12/16/2002 5:00                    | 10.56       | 51.01       | 18.16             | 93.90                      | 9.32                          | 1.80          | 5.06               | 5.72                  |       |
| 12/16/2002 5:30                    | 10.31       | 50.56       | 18.44             | 94.20                      | 9.39                          | 1.76          | 3.88               | 6.32                  |       |
| 12/16/2002 6:00                    | 10.18       | 50.32       | 18.18             | 94.20                      | 9.43                          | 1.81          | 4.24               | 5.62                  |       |
| 12/16/2002 6:30                    | 10.42       | 50.76       | 18.14             | 93.90                      | 9.35                          | 1.95          | 5.14               | 6.21                  |       |
| 12/16/2002 7:00                    | 10.64       | 51.16       | 18.53             | 93.30                      | 9.22                          | 2.15          | 8.67               | 5.61                  |       |
| 12/16/2002 7:30                    | 10.80       | 51.44       | 18.24             | 92.40                      | 9.11                          | 2.44          | 5.68               | 6.11                  |       |
| 12/16/2002 8:00                    | 11.09       | 51.97       | 19.33             | 90.50                      | 8.81                          | 2.69          | 5.85               | 6.01                  |       |
| 12/16/2002 8:30                    | 11.41       | 52.53       | 20.05             | 90.40                      | 8.71                          | 2.96          | 6.48               | 6.31                  |       |
| 12/16/2002 9:00                    | 12.61       | 54.70       | 24.55             | 87.30                      | 7.96                          | 3.28          | 13.54              | 8.31                  |       |
| 12/16/2002 9:30                    | 12.31       | 54.15       | 23.42             | 90.70                      | 8.39                          | 3.59          | 8.20               | 7.51                  |       |
| 12/16/2002 10:00                   | 12.34       | 54.22       | 23.96             | 93.90                      | 8.64                          | 3.83          | 6.65               | 8.31                  |       |
| 12/16/2002 10:30                   | 12.59       | 54.67       | 24.92             | 94.80                      | 8.63                          | 4.09          | 8.37               | 19.11                 |       |
| 12/16/2002 11:00                   | 12.69       | 54.84       | 25.00             | 96.60                      | 8.76                          | 4.28          | 7.82               | 8.81                  |       |
| 12/16/2002 11:30                   | 12.78       | 55.00       | 25.93             | 96.20                      | 8.66                          | 4.41          | 9.27               | 9.81                  |       |
| 12/16/2002 12:00                   | 12.83       | 55.10       | 26.07             | 96.30                      | 8.65                          | 4.34          | 8.81               | 7.41                  |       |
| 12/16/2002 12:30                   | 12.88       | 55.19       | 26.06             | 99.90                      | 8.97                          | 4.30          | 5.37               | 8.01                  |       |
| 12/16/2002 13:00                   | 12.94       | 55.30       | 26.01             | 104.70                     | 9.39                          | 4.18          | 4.73               | 7.51                  |       |
| 12/16/2002 13:30                   | 12.98       | 55.36       | 25.34             | 106.00                     | 9.54                          | 4.01          | 4.10               | 7.21                  |       |
| 12/16/2002 14:00                   | 13.08       | 55.54       | 25.71             | 110.50                     | 9.91                          | 3.93          | 4.09               | 6.81                  |       |
| 12/16/2002 14:30                   | 13.14       | 55.65       | 25.66             | 111.20                     | 9.96                          | 3.77          | 3.19               | 4.91                  |       |
| 12/16/2002 15:00                   | 13.19       | 55.75       | 25.71             | 114.20                     | 10.21                         | 3.53          | 2.46               | 4.91                  |       |
| 12/16/2002 15:30                   | 13.28       | 55.90       | 25.92             | 122.30                     | 10.90                         | 3.32          | 3.09               | 4.91                  |       |
| 12/16/2002 16:00                   | 13.40       | 56.12       | 25.33             | 130.90                     | 11.68                         | 3.23          | 2.46               | 4.81                  |       |
| 12/16/2002 16:30                   | 13.55       | 56.39       | 24.61             | 124.30                     | 11.10                         | 3.07          | 2.27               | 4.11                  |       |
| 12/16/2002 17:00                   | 13.56       | 56.41       | 24.85             | 124.80                     | 11.13                         | 3.03          | 1.46               | 3.61                  |       |
| 12/16/2002 17:30                   | 13.43       | 56.18       | 24.38             | 121.70                     | 10.92                         | 3.20          | 1.36               | 5.81                  |       |
| 12/16/2002 18:00                   | 13.51       | 56.32       | 24.30             | 121.80                     | 10.91                         | 3.31          | 2.35               | 4.01                  |       |
| 12/16/2002 18:30                   | 13.49       | 56.29       | 24.81             | 117.50                     | 10.49                         | 3.39          | 1.81               | 4.31                  |       |
| 12/16/2002 19:00                   | 13.54       | 56.38       | 25.10             | 113.60                     | 10.12                         | 3.49          | 1.35               | 4.01                  |       |
| 12/16/2002 19:30                   | 13.24       | 55.83       | 25.51             | 108.40                     | 9.70                          | 3.63          | 3.70               | 6.71                  |       |
| 12/16/2002 20:00                   | 13.39       | 56.10       | 25.19             | 110.30                     | 9.85                          | 3.84          | 3.15               | 5.41                  |       |
| 12/16/2002 20:30                   | 13.54       | 56.38       | 25.71             | 108.50                     | 9.63                          | 4.08          | 3.42               | 6.31                  |       |
| 12/16/2002 21:00                   | 13.54       | 56.37       | 26.06             | 104.60                     | 9.27                          | 4.32          | 3.60               | 7.31                  |       |
| 12/16/2002 21:30                   | 13.53       | 56.36       | 26.45             | 101.00                     | 8.92                          | 4.58          | 4.50               | 7.61                  |       |
| 12/16/2002 22:00                   | 13.52       | 56.34       | 27.18             | 99.10                      | 8.72                          | 4.78          | 3.86               | 8.40                  |       |
| 12/16/2002 22:30                   | 13.48       | 56.26       | 27.35             | 99.20                      | 8.73                          | 5.00          | 3.59               | 8.30                  |       |
| 12/16/2002 23:00                   | 13.41       | 56.14       | 27.52             | 99.60                      | 8.76                          | 5.03          | 3.67               | 7.40                  |       |
| 12/16/2002 23:30                   | 13.40       | 56.12       | 27.53             | 98.50                      | 8.67                          | 5.00          | 5.20               | 6.40                  |       |
| 12/17/2002 0:00                    | 13.37       | 56.07       | 27.50             | 98.90                      | 8.71                          | 4.83          | 3.22               | 6.80                  |       |
| 12/17/2002 0:30                    | 13.43       | 56.18       | 27.17             | 98.20                      | 8.65                          | 4.56          | 2.22               | 6.40                  |       |
| 12/17/2002 1:00                    | 13.41       | 56.13       | 27.20             | 95.20                      | 8.40                          | 4.29          | 1.77               | 4.60                  |       |
| 12/17/2002 1:30                    | 13.14       | 55.65       | 22.20             | 102.50                     | 9.38                          | 3.96          | 1.59               | 5.30                  |       |
| 12/17/2002 2:00                    | 13.31       | 55.96       | 24.54             | 101.40                     | 9.11                          | 3.59          | 0.96               | 5.50                  |       |
| 12/17/2002 2:30                    | 13.28       | 55.90       | 24.48             | 100.40                     | 9.03                          | 3.19          | 1.31               | 5.60                  |       |
| 12/17/2002 3:00                    | 13.09       | 55.56       | 23.25             | 100.50                     | 9.15                          | 2.89          | 1.22               | 5.50                  |       |
| 12/17/2002 3:30                    | 12.97       | 55.35       | 22.38             | 100.40                     | 9.21                          | 2.51          | 0.50               | 4.90                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/17/2002 4:00                    | 12.71       | 54.88       | 21.35             | 101.40                     | 9.41                          | 2.15          | 0.50               | 5.10                  |       |
| 12/17/2002 4:30                    | 12.50       | 54.50       | 20.75             | 101.80                     | 9.53                          | 1.92          | 1.21               | 5.20                  |       |
| 12/17/2002 5:00                    | 12.26       | 54.07       | 20.39             | 101.20                     | 9.54                          | 1.67          | 3.82               | 5.00                  |       |
| 12/17/2002 5:30                    | 12.04       | 53.68       | 20.38             | 99.00                      | 9.38                          | 1.50          | 0.40               | 5.30                  |       |
| 12/17/2002 6:00                    | 11.91       | 53.43       | 20.11             | 98.50                      | 9.38                          | 1.42          | -0.14              | 4.90                  |       |
| 12/17/2002 6:30                    | 11.86       | 53.35       | 20.25             | 98.80                      | 9.40                          | 1.50          | 0.30               | 5.10                  |       |
| 12/17/2002 7:00                    | 11.89       | 53.40       | 20.32             | 98.50                      | 9.36                          | 1.70          | 5.87               | 5.40                  |       |
| 12/17/2002 7:30                    | 11.99       | 53.59       | 20.84             | 99.40                      | 9.40                          | 1.97          | 3.80               | 5.90                  |       |
| 12/17/2002 8:00                    | 12.23       | 54.01       | 21.54             | 99.50                      | 9.32                          | 2.37          | 2.99               | 5.70                  |       |
| 12/17/2002 8:30                    | 12.45       | 54.41       | 22.43             | 98.70                      | 9.15                          | 2.79          | 3.34               | 5.70                  |       |
| 12/17/2002 9:00                    | 12.67       | 54.81       | 23.24             | 98.10                      | 9.00                          | 3.11          | 7.02               | 6.40                  |       |
| 12/17/2002 9:30                    | 12.87       | 55.17       | 24.15             | 96.50                      | 8.77                          | 3.45          | 27.39              | 10.30                 |       |
| 12/17/2002 10:00                   | 13.10       | 55.58       | 25.50             | 96.40                      | 8.65                          | 3.77          | 10.33              | 7.40                  |       |
| 12/17/2002 10:30                   | 12.97       | 55.35       | 25.55             | 98.80                      | 8.88                          | 4.14          | 20.02              | 9.30                  |       |
| 12/17/2002 11:00                   | 12.90       | 55.22       | 26.19             | 100.50                     | 9.01                          | 4.42          | 15.17              | 10.90                 |       |
| 12/17/2002 11:30                   | 13.04       | 55.47       | 26.86             | 100.30                     | 8.94                          | 4.65          | 16.60              | 10.70                 |       |
| 12/17/2002 12:00                   | 13.24       | 55.84       | 27.51             | 100.10                     | 8.84                          | 4.71          | 12.92              | 11.00                 |       |
| 12/17/2002 12:30                   | 13.44       | 56.20       | 27.67             | 101.50                     | 8.92                          | 4.69          | 6.01               | 10.00                 |       |
| 12/17/2002 13:00                   | 13.49       | 56.28       | 27.43             | 103.00                     | 9.05                          | 4.62          | 5.56               | 9.20                  |       |
| 12/17/2002 13:30                   | 13.49       | 56.29       | 27.71             | 105.40                     | 9.25                          | 4.57          | 6.90               | 9.89                  |       |
| 12/17/2002 14:00                   | 13.55       | 56.39       | 27.84             | 107.00                     | 9.37                          | 4.41          | 4.65               | 8.99                  |       |
| 12/17/2002 14:30                   | 13.57       | 56.43       | 27.56             | 107.10                     | 9.39                          | 4.18          | 2.32               | 9.09                  |       |
| 12/17/2002 15:00                   | 13.62       | 56.51       | 27.61             | 109.40                     | 9.58                          | 4.02          | 2.23               | 6.69                  |       |
| 12/17/2002 15:30                   | 13.61       | 56.49       | 26.93             | 108.00                     | 9.50                          | 3.83          | 3.84               | 6.09                  |       |
| 12/17/2002 16:00                   | 13.71       | 56.68       | 27.22             | 115.40                     | 10.11                         | 3.70          | 5.36               | 9.09                  |       |
| 12/17/2002 16:30                   | 13.62       | 56.52       | 27.80             | 109.20                     | 9.55                          | 3.54          | 1.24               | 6.99                  |       |
| 12/17/2002 17:00                   | 13.67       | 56.60       | 27.52             | 110.50                     | 9.68                          | 3.40          | 0.96               | 5.69                  |       |
| 12/17/2002 17:30                   | 13.68       | 56.63       | 27.08             | 113.70                     | 9.98                          | 3.39          | 0.25               | 5.89                  |       |
| 12/17/2002 18:00                   | 13.70       | 56.66       | 26.84             | 112.00                     | 9.84                          | 3.53          | 1.94               | 7.29                  |       |
| 12/17/2002 18:30                   | 13.72       | 56.69       | 27.38             | 103.90                     | 9.09                          | 3.47          | 0.33               | 5.59                  |       |
| 12/17/2002 19:00                   | 13.62       | 56.52       | 27.76             | 108.50                     | 9.49                          | 3.74          | 3.28               | 9.79                  |       |
| 12/17/2002 19:30                   | 13.70       | 56.66       | 27.69             | 111.10                     | 9.71                          | 4.01          | 3.63               | 8.29                  |       |
| 12/17/2002 20:00                   | 13.72       | 56.69       | 27.81             | 111.40                     | 9.73                          | 4.26          | 2.20               | 8.39                  |       |
| 12/17/2002 20:30                   | 13.76       | 56.76       | 27.84             | 110.40                     | 9.63                          | 4.57          | 2.46               | 8.29                  |       |
| 12/17/2002 21:00                   | 13.76       | 56.77       | 28.35             | 108.00                     | 9.39                          | 4.87          | 3.98               | 8.99                  |       |
| 12/17/2002 21:30                   | 13.72       | 56.70       | 28.35             | 107.80                     | 9.38                          | 5.16          | 1.48               | 10.19                 |       |
| 12/17/2002 22:00                   | 13.67       | 56.60       | 28.52             | 106.40                     | 9.25                          | 5.45          | 1.12               | 8.99                  |       |
| 12/17/2002 22:30                   | 13.56       | 56.40       | 29.18             | 104.00                     | 9.04                          | 5.62          | 1.47               | 9.99                  |       |
| 12/17/2002 23:00                   | 13.58       | 56.45       | 29.33             | 102.80                     | 8.91                          | 5.71          | 3.34               | 9.39                  |       |
| 12/17/2002 23:30                   | 13.61       | 56.50       | 29.40             | 101.50                     | 8.79                          | 5.62          | 2.54               | 10.69                 |       |
| 12/18/2002 0:00                    | 13.63       | 56.54       | 29.49             | 101.90                     | 8.81                          | 5.60          | 2.53               | 10.69                 |       |
| 12/18/2002 0:30                    | 13.64       | 56.56       | 29.50             | 101.30                     | 8.76                          | 5.38          | 3.24               | 10.19                 |       |
| 12/18/2002 1:00                    | 13.50       | 56.30       | 28.89             | 102.40                     | 8.92                          | 5.11          | 3.78               | 9.09                  |       |
| 12/18/2002 1:30                    | 13.54       | 56.38       | 28.64             | 104.10                     | 9.07                          | 4.66          | 0.38               | 7.99                  |       |
| 12/18/2002 2:00                    | 13.46       | 56.23       | 27.89             | 105.60                     | 9.26                          | 4.30          | 0.02               | 7.79                  |       |
| 12/18/2002 2:30                    | 13.46       | 56.23       | 27.73             | 104.30                     | 9.16                          | 3.81          | 0.29               | 7.69                  |       |
| 12/18/2002 3:00                    | 13.40       | 56.12       | 26.91             | 103.90                     | 9.18                          | 3.38          | 0.82               | 6.89                  |       |
| 12/18/2002 3:30                    | 13.21       | 55.78       | 25.65             | 105.00                     | 9.39                          | 2.94          | 2.87               | 6.99                  |       |
| 12/18/2002 4:00                    | 13.14       | 55.66       | 25.09             | 104.00                     | 9.35                          | 2.48          | 0.73               | 5.99                  |       |
| 12/18/2002 4:30                    | 12.97       | 55.35       | 24.37             | 103.40                     | 9.36                          | 2.11          | -0.17              | 5.39                  |       |
| 12/18/2002 5:00                    | 12.91       | 55.24       | 24.52             | 102.20                     | 9.26                          | 1.81          | 0.63               | 5.48                  |       |
| 12/18/2002 5:30                    | 12.71       | 54.87       | 24.16             | 99.90                      | 9.11                          | 1.55          | -0.17              | 5.28                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/18/2002 6:00                    | 12.57       | 54.62       | 23.22             | 97.40                      | 8.96                          | 1.38          | 0.63               | 4.88                  |       |
| 12/18/2002 6:30                    | 12.41       | 54.33       | 22.86             | 94.80                      | 8.77                          | 1.19          | 0.53               | 5.58                  |       |
| 12/18/2002 7:00                    | 12.27       | 54.09       | 22.60             | 94.80                      | 8.81                          | 1.19          | 6.23               | 6.78                  |       |
| 12/18/2002 7:30                    | 12.45       | 54.41       | 22.95             | 97.50                      | 9.01                          | 1.45          | 6.23               | 5.48                  |       |
| 12/18/2002 8:00                    | 12.59       | 54.66       | 23.38             | 97.90                      | 9.00                          | 1.73          | 11.56              | 6.98                  |       |
| 12/18/2002 8:30                    | 12.63       | 54.73       | 23.52             | 99.60                      | 9.14                          | 2.11          | 4.53               | 5.58                  |       |
| 12/18/2002 9:00                    | 12.83       | 55.10       | 24.21             | 100.80                     | 9.17                          | 2.56          | 10.40              | 6.68                  |       |
| 12/18/2002 9:30                    | 12.98       | 55.37       | 24.42             | 101.10                     | 9.15                          | 2.94          | 15.73              | 6.98                  |       |
| 12/18/2002 10:00                   | 13.17       | 55.71       | 24.84             | 100.70                     | 9.06                          | 3.35          | 19.37              | 7.98                  |       |
| 12/18/2002 10:30                   | 13.38       | 56.09       | 25.43             | 102.40                     | 9.14                          | 3.79          | 11.81              | 8.08                  |       |
| 12/18/2002 11:00                   | 13.48       | 56.27       | 26.29             | 102.90                     | 9.11                          | 4.15          | 4.51               | 10.18                 |       |
| 12/18/2002 11:30                   | 13.61       | 56.50       | 26.74             | 103.80                     | 9.14                          | 4.43          | 7.44               | 9.28                  |       |
| 12/18/2002 12:00                   | 13.77       | 56.79       | 27.22             | 106.00                     | 9.28                          | 4.71          | 7.35               | 9.68                  |       |
| 12/18/2002 12:30                   | 13.89       | 57.01       | 27.57             | 106.90                     | 9.31                          | 4.83          | 4.59               | 10.28                 |       |
| 12/18/2002 13:00                   | 14.06       | 57.30       | 28.14             | 107.80                     | 9.32                          | 4.88          | 4.05               | 11.08                 |       |
| 12/18/2002 13:30                   | 14.24       | 57.63       | 28.50             | 109.30                     | 9.40                          | 4.84          | 4.67               | 10.88                 |       |
| 12/18/2002 14:00                   | 14.25       | 57.65       | 28.47             | 112.00                     | 9.63                          | 4.78          | 2.00               | 11.58                 |       |
| 12/18/2002 14:30                   | 14.25       | 57.65       | 28.36             | 113.00                     | 9.73                          | 4.64          | 1.56               | 9.48                  |       |
| 12/18/2002 15:00                   | 14.27       | 57.68       | 28.04             | 114.10                     | 9.83                          | 4.45          | 2.89               | 9.98                  |       |
| 12/18/2002 15:30                   | 14.32       | 57.78       | 27.63             | 117.00                     | 10.10                         | 4.20          | 1.02               | 9.28                  |       |
| 12/18/2002 16:00                   | 14.44       | 57.99       | 27.33             | 117.70                     | 10.16                         | 4.05          | 1.64               | 9.28                  |       |
| 12/18/2002 16:30                   | 14.70       | 58.46       | 26.94             | 122.10                     | 10.50                         | 3.78          | 1.19               | 8.88                  |       |
| 12/18/2002 17:00                   | 14.36       | 57.85       | 27.94             | 110.40                     | 9.50                          | 3.63          | -0.32              | 5.18                  |       |
| 12/18/2002 17:30                   | 14.39       | 57.90       | 28.08             | 119.60                     | 10.28                         | 3.52          | 0.83               | 7.58                  |       |
| 12/18/2002 18:00                   | 14.39       | 57.91       | 27.97             | 120.10                     | 10.33                         | 3.42          | 1.27               | 6.88                  |       |
| 12/18/2002 18:30                   | 14.51       | 58.11       | 27.06             | 119.20                     | 10.28                         | 3.44          | 1.09               | 8.88                  |       |
| 12/18/2002 19:00                   | 14.57       | 58.22       | 26.90             | 123.00                     | 10.61                         | 3.51          | 0.20               | 7.38                  |       |
| 12/18/2002 19:30                   | 14.54       | 58.17       | 27.27             | 116.00                     | 9.99                          | 3.70          | 2.86               | 8.58                  |       |
| 12/18/2002 20:00                   | 14.41       | 57.94       | 27.97             | 116.50                     | 10.01                         | 3.89          | 2.85               | 9.87                  |       |
| 12/18/2002 20:30                   | 14.42       | 57.95       | 27.97             | 115.30                     | 9.91                          | 4.17          | 1.08               | 9.07                  |       |
| 12/18/2002 21:00                   | 14.42       | 57.95       | 28.21             | 113.80                     | 9.77                          | 4.44          | 2.32               | 9.47                  |       |
| 12/18/2002 21:30                   | 14.39       | 57.90       | 28.43             | 113.10                     | 9.70                          | 4.79          | 3.29               | 10.17                 |       |
| 12/18/2002 22:00                   | 14.37       | 57.86       | 28.84             | 111.80                     | 9.57                          | 5.03          | 3.82               | 10.17                 |       |
| 12/18/2002 22:30                   | 14.26       | 57.67       | 29.39             | 109.00                     | 9.32                          | 5.30          | 8.51               | 10.67                 |       |
| 12/18/2002 23:00                   | 14.20       | 57.56       | 29.83             | 106.50                     | 9.09                          | 5.37          | 4.43               | 10.67                 |       |
| 12/18/2002 23:30                   | 14.26       | 57.67       | 30.12             | 106.50                     | 9.06                          | 5.47          | 10.18              | 11.17                 |       |
| 12/19/2002 0:00                    | 14.43       | 57.97       | 30.22             | 109.10                     | 9.24                          | 5.53          | 1.77               | 10.57                 |       |
| 12/19/2002 0:30                    | 14.54       | 58.17       | 30.39             | 110.20                     | 9.31                          | 5.49          | 3.80               | 10.57                 |       |
| 12/19/2002 1:00                    | 14.42       | 57.95       | 29.91             | 109.00                     | 9.25                          | 5.33          | 2.03               | 11.27                 |       |
| 12/19/2002 1:30                    | 14.37       | 57.87       | 28.78             | 109.30                     | 9.36                          | 5.07          | 1.67               | 9.77                  |       |
| 12/19/2002 2:00                    | 14.35       | 57.83       | 28.11             | 108.70                     | 9.35                          | 4.67          | -0.01              | 6.67                  |       |
| 12/19/2002 2:30                    | 14.39       | 57.90       | 28.09             | 106.90                     | 9.19                          | 4.27          | -0.01              | 7.17                  |       |
| 12/19/2002 3:00                    | 14.42       | 57.95       | 27.73             | 105.70                     | 9.10                          | 3.86          | 1.84               | 7.17                  |       |
| 12/19/2002 3:30                    | 14.47       | 58.04       | 27.28             | 103.60                     | 8.94                          | 3.40          | 4.40               | 7.67                  |       |
| 12/19/2002 4:00                    | 14.51       | 58.11       | 25.90             | 104.60                     | 9.09                          | 2.98          | 7.40               | 6.67                  |       |
| 12/19/2002 4:30                    | 14.48       | 58.07       | 26.01             | 104.10                     | 9.05                          | 2.58          | 2.36               | 6.37                  |       |
| 12/19/2002 5:00                    | 14.38       | 57.89       | 26.06             | 103.90                     | 9.04                          | 2.17          | 2.09               | 5.87                  |       |
| 12/19/2002 5:30                    | 14.42       | 57.95       | 25.59             | 102.30                     | 8.92                          | 1.84          | 0.77               | 5.47                  |       |
| 12/19/2002 6:00                    | 14.19       | 57.55       | 26.50             | 99.50                      | 8.67                          | 1.59          | 0.59               | 5.27                  |       |
| 12/19/2002 6:30                    | 14.19       | 57.55       | 25.54             | 97.80                      | 8.57                          | 1.39          | -0.48              | 4.97                  |       |
| 12/19/2002 7:00                    | 14.18       | 57.52       | 24.93             | 94.80                      | 8.35                          | 1.30          | 1.55               | 5.87                  |       |
| 12/19/2002 7:30                    | 14.14       | 57.46       | 25.07             | 96.70                      | 8.51                          | 1.49          | 0.22               | 5.17                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/19/2002 8:00                    | 14.26       | 57.66       | 25.53             | 97.50                      | 8.53                          | 1.86          | 7.46               | 6.27                  |       |
| 12/19/2002 8:30                    | 14.28       | 57.70       | 25.32             | 98.90                      | 8.67                          | 2.25          | 3.39               | 5.97                  |       |
| 12/19/2002 9:00                    | 14.35       | 57.83       | 25.44             | 100.70                     | 8.80                          | 2.58          | 4.89               | 6.17                  |       |
| 12/19/2002 9:30                    | 14.44       | 58.00       | 25.58             | 102.00                     | 8.89                          | 2.92          | 2.86               | 6.87                  |       |
| 12/19/2002 10:00                   | 14.58       | 58.24       | 25.94             | 102.70                     | 8.91                          | 3.28          | 9.29               | 7.27                  |       |
| 12/19/2002 10:30                   | 14.65       | 58.37       | 26.48             | 103.60                     | 8.94                          | 3.70          | 7.79               | 8.57                  |       |
| 12/19/2002 11:00                   | 14.73       | 58.52       | 27.11             | 104.60                     | 8.98                          | 4.14          | 17.57              | 8.27                  |       |
| 12/19/2002 11:30                   | 14.69       | 58.45       | 27.91             | 106.00                     | 9.07                          | 4.49          | 16.24              | 11.86                 |       |
| 12/19/2002 12:00                   | 14.82       | 58.67       | 28.26             | 108.40                     | 9.23                          | 4.72          | 8.22               | 10.96                 |       |
| 12/19/2002 12:30                   | 14.93       | 58.87       | 28.64             | 109.50                     | 9.28                          | 4.92          | 6.80               | 11.16                 |       |
| 12/19/2002 13:00                   | 14.94       | 58.90       | 29.17             | 108.90                     | 9.19                          | 5.03          | 4.16               | 10.46                 |       |
| 12/19/2002 13:30                   | 15.01       | 59.02       | 29.50             | 110.40                     | 9.29                          | 5.08          | 3.36               | 11.56                 |       |
| 12/19/2002 14:00                   | 15.09       | 59.17       | 29.66             | 110.80                     | 9.30                          | 5.07          | 5.56               | 9.66                  |       |
| 12/19/2002 14:30                   | 15.17       | 59.30       | 29.69             | 111.40                     | 9.33                          | 5.04          | 4.85               | 9.66                  |       |
| 12/19/2002 15:00                   | 15.38       | 59.68       | 29.49             | 111.60                     | 9.32                          | 4.81          | 0.98               | 8.86                  |       |
| 12/19/2002 15:30                   | 15.69       | 60.24       | 29.07             | 116.50                     | 9.69                          | 4.62          | 1.41               | 9.66                  |       |
| 12/19/2002 16:00                   | 15.59       | 60.07       | 29.01             | 117.70                     | 9.81                          | 4.42          | 1220.83            | 9.06                  |       |
| 12/19/2002 16:30                   | 15.91       | 60.63       | 28.68             | 117.40                     | 9.75                          | 4.28          | 4.13               | 8.66                  |       |
| 12/19/2002 17:00                   | 15.62       | 60.11       | 28.98             | 114.50                     | 9.55                          | 4.09          | 3.34               | 8.46                  |       |
| 12/19/2002 17:30                   | 15.57       | 60.03       | 28.88             | 115.30                     | 9.63                          | 4.00          | 3.60               | 8.86                  |       |
| 12/19/2002 18:00                   | 15.60       | 60.08       | 28.58             | 114.40                     | 9.57                          | 3.93          | 21.00              | 10.46                 |       |
| 12/19/2002 18:30                   | 15.61       | 60.10       | 28.56             | 111.70                     | 9.34                          | 3.99          | 12.47              | 10.16                 |       |
| 12/19/2002 19:00                   | 15.65       | 60.17       | 28.68             | 112.40                     | 9.38                          | 4.09          | 18.44              | 10.76                 |       |
| 12/19/2002 19:30                   | 15.58       | 60.04       | 28.73             | 111.40                     | 9.31                          | 4.28          | 8.95               | 9.66                  |       |
| 12/19/2002 20:00                   | 15.59       | 60.06       | 28.68             | 111.50                     | 9.32                          | 4.40          | 5.16               | 11.26                 |       |
| 12/19/2002 20:30                   | 15.67       | 60.21       | 28.61             | 111.80                     | 9.33                          | 4.56          | 6.74               | 10.06                 |       |
| 12/19/2002 21:00                   | 15.71       | 60.27       | 29.20             | 115.30                     | 9.58                          | 4.83          | 7.97               | 9.86                  |       |
| 12/19/2002 21:30                   | 15.66       | 60.19       | 29.35             | 113.90                     | 9.46                          | 5.12          | 6.30               | 9.76                  |       |
| 12/19/2002 22:00                   | 15.46       | 59.83       | 30.06             | 110.60                     | 9.19                          | 5.36          | 12.61              | 9.46                  |       |
| 12/19/2002 22:30                   | 15.28       | 59.50       | 30.71             | 108.90                     | 9.05                          | 5.80          | 22.87              | 9.76                  |       |
| 12/19/2002 23:00                   | 15.32       | 59.58       | 30.91             | 108.20                     | 8.97                          | 6.05          | 15.41              | 9.06                  |       |
| 12/19/2002 23:30                   | 15.39       | 59.71       | 30.89             | 108.50                     | 8.99                          | 6.31          | 12.24              | 9.16                  |       |
| 12/20/2002 0:00                    | 15.41       | 59.73       | 30.97             | 107.70                     | 8.91                          | 6.54          | 7.68               | 8.86                  |       |
| 12/20/2002 0:30                    | 15.44       | 59.79       | 30.93             | 107.90                     | 8.92                          | 6.59          | 12.94              | 7.86                  |       |
| 12/20/2002 1:00                    | 15.47       | 59.84       | 30.76             | 107.70                     | 8.91                          | 6.49          | 12.40              | 9.46                  |       |
| 12/20/2002 1:30                    | 15.50       | 59.90       | 30.16             | 106.20                     | 8.81                          | 6.31          | 15.90              | 9.36                  |       |
| 12/20/2002 2:00                    | 15.51       | 59.91       | 30.18             | 104.90                     | 8.70                          | 6.06          | 20.54              | 9.26                  |       |
| 12/20/2002 2:30                    | 15.49       | 59.89       | 30.19             | 103.60                     | 8.60                          | 5.69          | 17.65              | 8.56                  |       |
| 12/20/2002 3:00                    | 15.46       | 59.83       | 30.26             | 102.10                     | 8.47                          | 5.33          | 13.52              | 8.75                  |       |
| 12/20/2002 3:30                    | 15.44       | 59.79       | 29.54             | 99.70                      | 8.31                          | 5.10          | 12.29              | 9.05                  |       |
| 12/20/2002 4:00                    | 15.56       | 60.01       | 29.50             | 99.30                      | 8.26                          | 4.64          | 18.07              | 9.35                  |       |
| 12/20/2002 4:30                    | 15.57       | 60.02       | 30.12             | 99.50                      | 8.25                          | 4.11          | 12.37              | 9.65                  |       |
| 12/20/2002 5:00                    | 15.84       | 60.52       | 29.21             | 96.00                      | 7.96                          | 3.87          | 13.94              | 8.35                  |       |
| 12/20/2002 5:30                    | 15.89       | 60.60       | 28.74             | 94.30                      | 7.83                          | 3.59          | 18.40              | 8.05                  |       |
| 12/20/2002 6:00                    | 16.23       | 61.22       | 26.94             | 93.50                      | 7.80                          | 2.93          | 9.73               | 7.45                  |       |
| 12/20/2002 6:30                    | 16.27       | 61.29       | 26.86             | 90.90                      | 7.58                          | 2.52          | 16.11              | 6.85                  |       |
| 12/20/2002 7:00                    | 16.25       | 61.25       | 26.60             | 89.60                      | 7.48                          | 2.07          | 13.04              | 6.65                  |       |
| 12/20/2002 7:30                    | 16.30       | 61.34       | 26.35             | 88.00                      | 7.35                          | 1.79          | 7.97               | 5.95                  |       |
| 12/20/2002 8:00                    | 16.23       | 61.22       | 26.23             | 88.20                      | 7.39                          | 1.64          | 9.80               | 6.25                  |       |
| 12/20/2002 8:30                    | 16.26       | 61.26       | 26.01             | 87.70                      | 7.35                          | 1.61          | 11.37              | 5.65                  |       |
| 12/20/2002 9:00                    | 16.32       | 61.38       | 25.61             | 88.70                      | 7.44                          | 1.68          | 11.89              | 6.25                  |       |
| 12/20/2002 9:30                    | 16.38       | 61.49       | 24.83             | 89.10                      | 7.50                          | 1.97          | 9.87               | 7.15                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/20/2002 10:00                   | 16.39       | 61.50       | 25.30             | 91.60                      | 7.69                          | 2.32          | 25.59              | 9.35                  |       |
| 12/20/2002 10:30                   | 16.43       | 61.58       | 25.74             | 92.00                      | 7.70                          | 2.67          | 28.03              | 8.95                  |       |
| 12/20/2002 11:00                   | 16.52       | 61.73       | 25.31             | 95.10                      | 7.96                          | 2.95          | 8.90               | 9.15                  |       |
| 12/20/2002 11:30                   | 16.50       | 61.70       | 25.81             | 96.50                      | 8.06                          | 3.19          | 19.72              | 9.25                  |       |
| 12/20/2002 12:00                   | 16.57       | 61.82       | 26.59             | 99.40                      | 8.25                          | 3.46          | 16.22              | 9.45                  |       |
| 12/20/2002 12:30                   | 16.64       | 61.95       | 26.01             | 97.70                      | 8.13                          | 3.81          | 14.39              | 9.95                  |       |
| 12/20/2002 13:00                   | 16.64       | 61.96       | 27.22             | 102.20                     | 8.44                          | 4.21          | 22.06              | 10.25                 |       |
| 12/20/2002 13:30                   | 16.29       | 61.33       | 29.02             | 103.00                     | 8.47                          | 4.51          | 18.65              | 10.65                 |       |
| 12/20/2002 14:00                   | 16.36       | 61.45       | 29.03             | 103.20                     | 8.47                          | 4.53          | 25.36              | 10.95                 |       |
| 12/20/2002 14:30                   | 16.54       | 61.77       | 28.76             | 104.80                     | 8.60                          | 4.61          | 31.54              | 11.95                 |       |
| 12/20/2002 15:00                   | 16.83       | 62.29       | 28.06             | 104.30                     | 8.54                          | 4.62          | 36.77              | 13.15                 |       |
| 12/20/2002 15:30                   | 16.88       | 62.38       | 27.84             | 103.50                     | 8.48                          | 4.59          | 34.49              | 13.35                 |       |
| 12/20/2002 16:00                   | 16.83       | 62.29       | 27.80             | 102.50                     | 8.40                          | 4.53          | 68.12              | 14.65                 |       |
| 12/20/2002 16:30                   | 16.83       | 62.30       | 28.10             | 102.30                     | 8.37                          | 4.39          | 37.87              | 13.15                 |       |
| 12/20/2002 17:00                   | 16.78       | 62.21       | 27.78             | 99.90                      | 8.20                          | 4.17          | 33.77              | 11.55                 |       |
| 12/20/2002 17:30                   | 16.72       | 62.09       | 27.46             | 98.70                      | 8.13                          | 4.11          | 41.42              | 12.35                 |       |
| 12/20/2002 18:00                   | 16.63       | 61.93       | 27.47             | 99.10                      | 8.17                          | 3.87          | 38.10              | 12.54                 |       |
| 12/20/2002 18:30                   | 16.62       | 61.91       | 27.71             | 100.40                     | 8.27                          | 3.53          | 51.15              | 11.24                 |       |
| 12/20/2002 19:00                   | 16.49       | 61.69       | 27.03             | 100.50                     | 8.33                          | 3.46          | 38.52              | 11.94                 |       |
| 12/20/2002 19:30                   | 16.39       | 61.51       | 26.80             | 101.40                     | 8.44                          | 3.51          | 24.76              | 12.24                 |       |
| 12/20/2002 20:00                   | 16.13       | 61.04       | 27.93             | 95.60                      | 7.94                          | 3.45          | 31.97              | 10.84                 |       |
| 12/20/2002 20:30                   | 16.01       | 60.81       | 27.47             | 97.20                      | 8.12                          | 3.45          | 38.14              | 12.94                 |       |
| 12/20/2002 21:00                   | 15.98       | 60.76       | 27.04             | 96.30                      | 8.07                          | 3.53          | 31.00              | 11.94                 |       |
| 12/20/2002 21:30                   | 16.11       | 61.00       | 26.73             | 96.90                      | 8.11                          | 3.63          | 24.73              | 9.84                  |       |
| 12/20/2002 22:00                   | 15.99       | 60.79       | 26.94             | 95.00                      | 7.96                          | 3.84          | 32.89              | 11.94                 |       |
| 12/20/2002 22:30                   | 15.92       | 60.65       | 27.22             | 95.70                      | 8.01                          | 4.01          | 39.41              | 13.74                 |       |
| 12/20/2002 23:00                   | 15.82       | 60.48       | 27.37             | 95.60                      | 8.02                          | 4.18          | 37.57              | 13.44                 |       |
| 12/20/2002 23:30                   | 15.76       | 60.37       | 27.33             | 94.80                      | 7.97                          | 4.34          | 40.43              | 12.04                 |       |
| 12/21/2002 0:00                    | 15.61       | 60.10       | 27.82             | 93.60                      | 7.86                          | 4.52          | 33.21              | 11.14                 |       |
| 12/21/2002 0:30                    | 15.48       | 59.86       | 28.51             | 93.40                      | 7.83                          | 4.63          | 36.15              | 12.34                 |       |
| 12/21/2002 1:00                    | 15.32       | 59.58       | 28.69             | 93.30                      | 7.84                          | 4.69          | 23.98              | 11.04                 |       |
| 12/21/2002 1:30                    | 15.30       | 59.54       | 28.15             | 92.00                      | 7.76                          | 4.67          | 25.45              | 10.34                 |       |
| 12/21/2002 2:00                    | 15.24       | 59.44       | 28.34             | 92.00                      | 7.76                          | 4.59          | 23.79              | 10.54                 |       |
| 12/21/2002 2:30                    | 15.06       | 59.10       | 28.82             | 92.10                      | 7.78                          | 4.41          | 26.13              | 10.44                 |       |
| 12/21/2002 3:00                    | 15.06       | 59.10       | 28.26             | 90.10                      | 7.63                          | 4.21          | 23.34              | 9.44                  |       |
| 12/21/2002 3:30                    | 14.83       | 58.70       | 27.95             | 90.00                      | 7.67                          | 3.94          | 10.15              | 9.44                  |       |
| 12/21/2002 4:00                    | 14.76       | 58.57       | 27.42             | 89.60                      | 7.67                          | 3.64          | 19.08              | 9.04                  |       |
| 12/21/2002 4:30                    | 14.79       | 58.62       | 26.57             | 88.90                      | 7.65                          | 3.30          | 12.91              | 7.84                  |       |
| 12/21/2002 5:00                    | 14.79       | 58.63       | 26.09             | 88.10                      | 7.60                          | 2.94          | 14.04              | 8.04                  |       |
| 12/21/2002 5:30                    | 14.34       | 57.82       | 26.36             | 85.90                      | 7.47                          | 2.57          | 9.52               | 7.74                  |       |
| 12/21/2002 6:00                    | 13.91       | 57.03       | 26.11             | 84.30                      | 7.41                          | 2.18          | 13.42              | 7.94                  |       |
| 12/21/2002 6:30                    | 13.64       | 56.56       | 26.07             | 83.00                      | 7.33                          | 1.82          | 8.39               | 6.74                  |       |
| 12/21/2002 7:00                    | 13.33       | 56.00       | 25.97             | 81.80                      | 7.28                          | 1.51          | 5.87               | 6.54                  |       |
| 12/21/2002 7:30                    | 12.99       | 55.39       | 25.97             | 81.10                      | 7.27                          | 1.20          | 5.43               | 6.04                  |       |
| 12/21/2002 8:00                    | 12.65       | 54.77       | 26.27             | 81.60                      | 7.36                          | 0.93          | 4.65               | 5.94                  |       |
| 12/21/2002 8:30                    | 12.31       | 54.16       | 26.14             | 83.70                      | 7.60                          | 0.76          | 5.16               | 5.74                  |       |
| 12/21/2002 9:00                    | 12.16       | 53.88       | 26.19             | 87.60                      | 7.98                          | 0.73          | 2.65               | 5.04                  |       |
| 12/21/2002 9:30                    | 12.39       | 54.30       | 26.19             | 88.10                      | 7.98                          | 0.87          | 7.75               | 5.63                  |       |
| 12/21/2002 10:00                   | 13.04       | 55.47       | 25.89             | 83.40                      | 7.47                          | 1.12          | 8.79               | 5.83                  |       |
| 12/21/2002 10:30                   | 13.81       | 56.85       | 25.95             | 88.70                      | 7.82                          | 1.49          | 28.09              | 7.63                  |       |
| 12/21/2002 11:00                   | 13.92       | 57.05       | 25.54             | 88.10                      | 7.77                          | 1.86          | 13.02              | 6.53                  |       |
| 12/21/2002 11:30                   | 14.16       | 57.48       | 25.13             | 90.50                      | 7.96                          | 2.24          | 16.39              | 7.93                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|-------|
| 12/21/2002 12:00                   | 14.37       | 57.86       | 25.08             | 91.10                      | 7.98                          | 2.60          | 16.90              | 7.93                  |       |
| 12/21/2002 12:30                   | 14.50       | 58.10       | 25.11             | 92.30                      | 8.06                          | 2.90          | 7.73               | 6.93                  |       |
| 12/21/2002 13:00                   | 14.66       | 58.39       | 25.01             | 93.80                      | 8.17                          | 3.23          | 11.36              | 7.43                  |       |
| 12/21/2002 13:30                   | 14.93       | 58.87       | 24.88             | 94.80                      | 8.22                          | 3.52          | 20.00              | 9.53                  |       |
| 12/21/2002 14:00                   | 15.02       | 59.03       | 24.37             | 96.80                      | 8.41                          | 3.78          | 16.36              | 10.73                 |       |
| 12/21/2002 14:30                   | 15.07       | 59.12       | 24.01             | 97.50                      | 8.48                          | 3.98          | 14.45              | 10.13                 |       |
| 12/21/2002 15:00                   | 15.10       | 59.18       | 24.64             | 97.40                      | 8.42                          | 4.05          | 14.36              | 10.03                 |       |
| 12/21/2002 15:30                   | 15.19       | 59.34       | 25.17             | 98.50                      | 8.48                          | 4.13          | 16.69              | 9.93                  |       |
| 12/21/2002 16:00                   | 15.18       | 59.32       | 25.41             | 98.30                      | 8.45                          | 4.20          | 12.36              | 10.53                 |       |
| 12/21/2002 16:30                   | 15.23       | 59.42       | 25.13             | 97.90                      | 8.42                          | 4.10          | 10.03              | 9.73                  |       |
| 12/21/2002 17:00                   | 15.23       | 59.41       | 25.15             | 96.40                      | 8.29                          | 4.00          | 15.03              | 8.23                  |       |
| 12/21/2002 17:30                   | 15.14       | 59.26       | 24.97             | 97.50                      | 8.41                          | 3.76          | 7.95               | 6.93                  |       |
| 12/21/2002 18:00                   | 15.17       | 59.30       | 25.02             | 98.30                      | 8.47                          | 3.53          | 5.53               | 7.93                  |       |
| 12/21/2002 18:30                   | 15.04       | 59.08       | 24.85             | 98.10                      | 8.48                          | 3.39          | 5.78               | 8.33                  |       |
| 12/21/2002 19:00                   | 14.95       | 58.91       | 24.77             | 95.40                      | 8.27                          | 3.29          | 3.88               | 7.23                  |       |
| 12/21/2002 19:30                   | 14.89       | 58.80       | 24.74             | 95.50                      | 8.29                          | 3.30          | 4.57               | 6.43                  |       |
| 12/21/2002 20:00                   | 14.81       | 58.66       | 24.78             | 92.30                      | 8.03                          | 3.31          | 2.32               | 6.13                  |       |
| 12/21/2002 20:30                   | 14.79       | 58.63       | 24.74             | 94.80                      | 8.25                          | 3.35          | 2.32               | 6.43                  |       |
| 12/21/2002 21:00                   | 14.85       | 58.73       | 24.71             | 95.80                      | 8.33                          | 3.57          | 3.35               | 7.43                  |       |
| 12/21/2002 21:30                   | 14.83       | 58.70       | 24.77             | 93.80                      | 8.15                          | 3.74          | 6.36               | 7.03                  |       |
| 12/21/2002 22:00                   | 14.96       | 58.93       | 25.06             | 93.30                      | 8.07                          | 3.97          | 6.79               | 7.63                  |       |
| 12/21/2002 22:30                   | 14.43       | 57.97       | 25.20             | 95.80                      | 8.38                          | 4.30          | 9.72               | 8.43                  |       |
| 12/21/2002 23:00                   | 14.66       | 58.39       | 25.43             | 97.30                      | 8.45                          | 4.59          | 5.83               | 8.33                  |       |
| 12/21/2002 23:30                   | 15.02       | 59.04       | 25.62             | 98.60                      | 8.49                          | 4.86          | 8.50               | 8.73                  |       |
| 12/22/2002 0:00                    | 15.04       | 59.07       | 25.87             | 96.30                      | 8.28                          | 5.05          | 9.44               | 8.83                  |       |
| 12/22/2002 0:30                    | 14.79       | 58.63       | 26.43             | 97.30                      | 8.38                          | 5.27          | 11.68              | 8.83                  |       |
| 12/22/2002 1:00                    | 14.69       | 58.45       | 26.83             | 98.20                      | 8.45                          | 5.53          | 5.73               | 8.82                  |       |
| 12/22/2002 1:30                    | 14.61       | 58.30       | 27.11             | 98.10                      | 8.44                          | 5.73          | 7.19               | 8.02                  |       |
| 12/22/2002 2:00                    | 14.59       | 58.27       | 26.99             | 97.30                      | 8.38                          | 5.83          | 2.71               | 7.92                  |       |
| 12/22/2002 2:30                    | 14.49       | 58.08       | 26.92             | 96.40                      | 8.32                          | 5.83          | 2.80               | 7.92                  |       |
| 12/22/2002 3:00                    | 14.58       | 58.25       | 27.05             | 93.40                      | 8.05                          | 5.64          | 4.00               | 6.42                  |       |
| 12/22/2002 3:30                    | 14.42       | 57.95       | 26.73             | 94.40                      | 8.17                          | 5.32          | 9.24               | 6.82                  |       |
| 12/22/2002 4:00                    | 14.36       | 57.85       | 26.52             | 94.70                      | 8.22                          | 4.89          | 4.34               | 7.82                  |       |
| 12/22/2002 4:30                    | 14.18       | 57.52       | 25.47             | 93.50                      | 8.21                          | 4.41          | 3.56               | 8.52                  |       |
| 12/22/2002 5:00                    | 13.84       | 56.91       | 22.30             | 92.50                      | 8.33                          | 4.03          | 3.56               | 7.22                  |       |
| 12/22/2002 5:30                    | 13.60       | 56.48       | 21.59             | 91.70                      | 8.34                          | 3.61          | 3.98               | 6.92                  |       |
| 12/22/2002 6:00                    | 13.39       | 56.11       | 21.30             | 91.20                      | 8.34                          | 3.21          | 1.06               | 75.62                 |       |
| 12/22/2002 6:30                    | 13.24       | 55.84       | 21.52             | 89.80                      | 8.23                          | 2.86          | 0.62               | 15.32                 |       |
| 12/22/2002 7:00                    | 13.16       | 55.69       | 21.29             | 88.60                      | 8.15                          | 2.52          | 1.05               | 118.22                |       |
| 12/22/2002 7:30                    | 12.91       | 55.23       | 21.92             | 90.00                      | 8.29                          | 2.05          | 1.82               | 21.02                 |       |
| 12/22/2002 8:00                    | 12.73       | 54.92       | 21.86             | 89.40                      | 8.27                          | 1.71          | 0.70               | 5.32                  |       |
| 12/22/2002 8:30                    | 12.62       | 54.71       | 22.02             | 90.10                      | 8.34                          | 1.48          | 0.70               | 5.12                  |       |
| 12/22/2002 9:00                    | 12.42       | 54.35       | 21.97             | 89.80                      | 8.36                          | 1.33          | 0.27               | 5.02                  |       |
| 12/22/2002 9:30                    | 12.46       | 54.43       | 21.92             | 91.30                      | 8.49                          | 1.31          | -0.76              | 5.42                  |       |
| 12/22/2002 10:00                   | 12.73       | 54.91       | 22.09             | 96.20                      | 8.89                          | 1.48          | 0.43               | 4.42                  |       |
| 12/22/2002 10:30                   | 13.00       | 55.40       | 22.24             | 95.20                      | 8.73                          | 1.79          | 4.89               | 5.42                  |       |
| 12/22/2002 11:00                   | 13.26       | 55.86       | 21.86             | 95.60                      | 8.75                          | 2.15          | 3.43               | 4.92                  |       |
| 12/22/2002 11:30                   | 13.36       | 56.04       | 22.77             | 94.80                      | 8.60                          | 2.54          | 2.65               | 5.62                  |       |
| 12/22/2002 12:00                   | 13.66       | 56.58       | 22.28             | 94.80                      | 8.58                          | 2.90          | 6.08               | 6.72                  |       |
| 12/22/2002 12:30                   | 13.93       | 57.08       | 22.52             | 95.30                      | 8.56                          | 3.25          | 9.50               | 7.82                  |       |
| 12/22/2002 13:00                   | 14.18       | 57.52       | 22.82             | 94.20                      | 8.40                          | 3.54          | 14.81              | 9.52                  |       |
| 12/22/2002 13:30                   | 14.34       | 57.82       | 22.96             | 96.10                      | 8.53                          | 3.82          | 13.18              | 9.12                  |       |

| DateTime<br>(mm/dd/year<br>hr:min) | Temp<br>(C) | Temp<br>(F) | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(%) | Dissolved<br>Oxygen<br>(mg/l) | Depth<br>(ft) | Turbidity<br>(NTU) | Chlorophyll<br>(ug/l) | NOTES        |
|------------------------------------|-------------|-------------|-------------------|----------------------------|-------------------------------|---------------|--------------------|-----------------------|--------------|
| 12/22/2002 14:00                   | 14.62       | 58.31       | 24.36             | 100.40                     | 8.79                          | 4.08          | 14.71              | 11.42                 |              |
| 12/22/2002 14:30                   | 14.62       | 58.31       | 23.46             | 101.50                     | 8.94                          | 4.34          | 7.60               | 10.32                 |              |
| 12/22/2002 15:00                   | 14.59       | 58.27       | 23.41             | 100.30                     | 8.84                          | 4.60          | 4.52               | 9.32                  |              |
| 12/22/2002 15:30                   | 14.64       | 58.36       | 23.40             | 98.90                      | 8.70                          | 4.63          | 7.68               | 10.32                 |              |
| 12/22/2002 16:00                   | 14.66       | 58.38       | 23.43             | 98.50                      | 8.67                          | 4.60          | 10.50              | 10.71                 |              |
| 12/22/2002 16:30                   | 14.74       | 58.53       | 23.77             | 98.80                      | 8.66                          | 4.53          | 10.41              | 10.71                 |              |
| 12/22/2002 17:00                   | 14.81       | 58.66       | 23.37             | 97.90                      | 8.59                          | 4.39          | 5.36               | 7.61                  |              |
| 12/22/2002 17:30                   | 14.92       | 58.85       | 23.38             | 104.00                     | 9.10                          | 4.19          | 3.30               | 8.71                  |              |
| 12/22/2002 18:00                   | 14.93       | 58.88       | 23.52             | 104.40                     | 9.12                          | 3.96          | 4.15               | 9.61                  |              |
| 12/22/2002 18:30                   | 14.96       | 58.93       | 23.42             | 105.00                     | 9.18                          | 3.70          | 3.29               | 9.51                  |              |
| 12/22/2002 19:00                   | 14.95       | 58.91       | 23.41             | 101.90                     | 8.91                          | 3.56          | 1.75               | 7.41                  |              |
| 12/22/2002 19:30                   | 15.05       | 59.09       | 23.46             | 104.30                     | 9.10                          | 3.40          | 1.92               | 8.41                  |              |
| 12/22/2002 20:00                   | 15.11       | 59.19       | 23.53             | 104.40                     | 9.09                          | 3.26          | 1.23               | 7.71                  |              |
| 12/22/2002 20:30                   | 15.15       | 59.27       | 23.29             | 103.50                     | 9.02                          | 3.23          | 2.43               | 5.61                  |              |
| 12/22/2002 21:00                   | 15.08       | 59.14       | 23.49             | 100.20                     | 8.73                          | 3.16          | -0.40              | 4.61                  |              |
| 12/22/2002 21:30                   | 14.99       | 58.99       | 23.24             | 101.80                     | 8.90                          | 3.26          | 0.46               | 5.51                  |              |
| 12/22/2002 22:00                   | 14.90       | 58.82       | 23.84             | 99.00                      | 8.64                          | 3.46          | 1.65               | 7.81                  |              |
| 12/22/2002 22:30                   | 14.86       | 58.74       | 23.74             | 99.00                      | 8.66                          | 3.66          | 2.84               | 8.11                  |              |
| 12/22/2002 23:00                   | 14.77       | 58.59       | 23.61             | 96.50                      | 8.45                          | 3.91          | 2.24               | 8.91                  |              |
| 12/22/2002 23:30                   | 14.71       | 58.48       | 23.86             | 94.90                      | 8.32                          | 4.23          | 1.47               | 9.01                  |              |
| 12/23/2002 0:00                    | 14.78       | 58.61       | 24.57             | 95.10                      | 8.29                          | 4.50          | 1.81               | 9.71                  |              |
| 12/23/2002 0:30                    | 14.78       | 58.61       | 24.56             | 94.70                      | 8.25                          | 4.79          | 3.00               | 9.41                  |              |
| 12/23/2002 1:00                    | 14.78       | 58.60       | 24.79             | 94.20                      | 8.20                          | 5.02          | 3.85               | 10.01                 |              |
| 12/23/2002 1:30                    | 14.78       | 58.60       | 25.31             | 95.30                      | 8.27                          | 5.23          | 2.65               | 9.81                  |              |
| 12/23/2002 2:00                    | 14.83       | 58.69       | 26.46             | 95.60                      | 8.22                          | 5.37          | 4.44               | 9.41                  |              |
| 12/23/2002 2:30                    | 14.84       | 58.72       | 26.72             | 93.90                      | 8.06                          | 5.42          | 5.46               | 9.31                  |              |
| 12/23/2002 3:00                    | 14.78       | 58.61       | 26.41             | 94.10                      | 8.11                          | 5.40          | 0.85               | 8.51                  |              |
| 12/23/2002 3:30                    | 14.83       | 58.69       | 26.76             | 92.10                      | 7.91                          | 5.23          | 2.72               | 8.71                  |              |
| 12/23/2002 4:00                    | 14.74       | 58.54       | 26.83             | 92.20                      | 7.93                          | 4.97          | 1.70               | 8.91                  |              |
| 12/23/2002 4:30                    | 14.56       | 58.21       | 26.41             | 94.70                      | 8.20                          | 4.66          | -0.01              | 9.91                  |              |
| 12/23/2002 5:00                    | 14.54       | 58.18       | 24.98             | 91.20                      | 7.97                          | 4.27          | 0.84               | 8.11                  |              |
| 12/23/2002 5:30                    | 14.58       | 58.25       | 24.68             | 91.20                      | 7.97                          | 3.91          | 1.94               | 7.61                  |              |
| 12/23/2002 6:00                    | 14.47       | 58.05       | 24.69             | 89.70                      | 7.86                          | 3.56          | 1.35               | 7.21                  |              |
| 12/23/2002 6:30                    | 14.32       | 57.77       | 24.10             | 91.40                      | 8.06                          | 3.14          | 3.39               | 6.61                  |              |
| 12/23/2002 7:00                    | 14.16       | 57.48       | 23.46             | 92.90                      | 8.26                          | 2.75          | 1.08               | 6.11                  |              |
| 12/23/2002 7:30                    | 14.05       | 57.29       | 23.90             | 92.40                      | 8.21                          | 2.36          | 0.23               | 5.40                  |              |
| 12/23/2002 8:00                    | 13.96       | 57.13       | 23.46             | 90.10                      | 8.04                          | 2.00          | -0.11              | 5.00                  |              |
| 12/23/2002 8:30                    | 14.06       | 57.30       | 23.04             | 93.40                      | 8.34                          | 1.67          | 0.06               | 4.60                  |              |
| 12/23/2002 9:00                    | 13.96       | 57.13       | 22.92             | 92.20                      | 8.25                          | 1.41          | 0.56               | 5.10                  |              |
| 12/23/2002 9:30                    | 14.01       | 57.21       | 22.83             | 92.90                      | 8.32                          | 1.24          | -0.54              | 4.80                  |              |
| 12/23/2002 10:00                   | 14.19       | 57.55       | 22.90             | 95.00                      | 8.46                          | 1.23          | -0.38              | 4.50                  |              |
| 12/23/2002 10:30                   | 14.41       | 57.93       | 22.74             | 101.30                     | 8.99                          | 1.43          | -0.04              | 4.70                  |              |
| 12/23/2002 11:00                   | 14.58       | 58.24       | 22.64             | 98.10                      | 8.68                          | 1.72          | 4.12               | 5.30                  |              |
| 12/23/2002 11:30                   | 14.75       | 58.55       | 22.73             | 99.50                      | 8.77                          | 2.05          | 3.27               | 5.30                  |              |
| 12/23/2002 12:00                   | 14.85       | 58.73       | 22.94             | 99.30                      | 8.72                          | 2.36          | 47.59              | 5.60                  |              |
| 12/23/2002 12:30                   | 14.89       | 58.80       | 22.65             | 97.80                      | 8.61                          | 2.71          | 4.87               | 6.50                  |              |
| 12/23/2002 13:00                   | 15.01       | 59.02       | 22.57             | 98.50                      | 8.64                          | 3.02          | 3.68               | 6.30                  |              |
| 12/23/2002 13:30                   | 15.08       | 59.15       | 22.82             | 98.90                      | 8.66                          | 3.39          | 8.68               | 8.70                  |              |
| 12/23/2002 14:00                   | 15.13       | 59.23       | 23.32             | 97.90                      | 8.54                          | 3.81          | 10.89              | 9.40                  |              |
| 12/23/2002 14:30                   | 15.21       | 59.37       | 23.72             | 98.50                      | 8.55                          | 4.11          | 4.52               | 8.80                  |              |
| 12/23/2002 15:00                   | 15.28       | 59.51       | 23.87             | 98.60                      | 8.54                          | 4.38          | 5.45               | 8.80                  |              |
| 12/23/2002 15:30                   | 15.31       | 59.56       | 28.45             | 105.50                     | 8.88                          | 4.84          |                    | 9.20                  | New<br>Sonde |















