

| 28-10-2008          | Water<br>depth (m) | Sampling<br>depth (m) | Temp (°C) |           | Salinity (ppt) |           | DO (mg/L) |           | pH      |           | Turbidity (NTU) |           | SS (mg/L)              |           |
|---------------------|--------------------|-----------------------|-----------|-----------|----------------|-----------|-----------|-----------|---------|-----------|-----------------|-----------|------------------------|-----------|
| Marine Station      |                    |                       | mid-ebb   | mid-flood | mid-ebb        | mid-flood | mid-ebb   | mid-flood | mid-ebb | mid-flood | mid-ebb         | mid-flood | mid-ebb                | mid-flood |
| M_RO1               | 5.4                | surface               | 24.3      | 24.6      | 29.7           | 31.3      | 7.1       | 6.8       | 8.2     | 8.2       | 2.1             | 1.5       | 2.0                    | 2.0       |
|                     |                    | bottom                | 24.4      | 24.5      | 30.0           | 31.5      | 7.1       | 6.9       | 8.4     | 8.3       | 2.9             | 2.2       | 2.0                    | 3.0       |
| KLW                 | 13.4               | surface               | 24.2      | 24.9      | 29.9           | 31.6      | 7.3       | 7.0       | 8.2     | 8.1       | 2.8             | 2.5       | 3.0                    | 3.0       |
|                     |                    | middle                | 24.3      | 24.6      | 30.0           | 31.8      | 7.2       | 7.0       | 8.4     | 8.3       | 1.8             | 1.5       | 2.0                    | 2.0       |
|                     |                    | bottom                | 24.3      | 24.4      | 30.1           | 31.9      | 7.3       | 7.0       | 8.4     | 8.3       | 1.6             | 1.9       | 3.0                    | 2.0       |
| M_A                 | 7.6                | surface               | 23.8      | 24.2      | 29.8           | 31.6      | 7.2       | 6.8       | 8.3     | 8.2       | 1.8             | 2.0       | 3.0                    | 2.0       |
|                     |                    | middle                | 24.0      | 24.1      | 30.0           | 31.8      | 7.1       | 7.0       | 8.4     | 8.3       | 1.8             | 1.6       | 2.0                    | 3.0       |
|                     |                    | bottom                | 23.6      | 23.6      | 30.1           | 32.0      | 7.1       | 7.0       | 8.4     | 8.3       | 2.5             | 2.2       | 3.0                    | 2.0       |
| M_Marsh             | 7.7                | surface               | 23.6      | 24.2      | 29.8           | 31.8      | 6.9       | 6.8       | 8.3     | 8.2       | 2.1             | 1.7       | 2.0                    | 2.0       |
|                     |                    | middle                | 23.6      | 23.8      | 30.0           | 31.8      | 6.9       | 6.6       | 8.4     | 8.3       | 1.9             | 1.5       | 2.0                    | 3.0       |
|                     |                    | bottom                | 23.7      | 23.8      | 30.1           | 32.1      | 6.9       | 6.8       | 8.4     | 8.3       | 3.1             | 2.5       | 3.0                    | 2.0       |
| TTC                 | 9.6                | surface               | 23.7      | 24.2      | 30.0           | 32.2      | 7.1       | 6.8       | 8.3     | 8.1       | 2.5             | 1.9       | 2.0                    | 4.0       |
|                     |                    | middle                | 23.8      | 24.0      | 30.2           | 32.2      | 6.8       | 6.7       | 8.4     | 8.2       | 2.1             | 1.8       | 3.0                    | 2.0       |
|                     |                    | bottom                | 23.8      | 23.9      | 30.3           | 32.5      | 6.7       | 6.6       | 8.4     | 8.2       | 1.9             | 1.5       | 3.0                    | 2.0       |
| M_Coral             | 10.0               | surface               | 23.7      | 24.2      | 30.6           | 32.6      | 6.7       | 6.7       | 8.4     | 8.3       | 1.7             | 1.8       | 2.0                    | 3.0       |
|                     |                    | middle                | 23.8      | 23.9      | 30.7           | 32.8      | 6.8       | 6.6       | 8.3     | 8.2       | 1.9             | 1.5       | 2.0                    | 2.0       |
|                     |                    | bottom                | 23.8      | 23.8      | 30.7           | 32.9      | 6.9       | 6.8       | 8.4     | 8.3       | 2.0             | 2.2       | 4.0                    | 4.0       |
| M_B                 | 16.6               | surface               | 23.5      | 23.9      | 30.6           | 32.5      | 6.8       | 6.7       | 8.4     | 8.3       | 1.5             | 1.9       | 2.0                    | 2.0       |
|                     |                    | middle                | 23.6      | 23.8      | 30.8           | 32.7      | 6.9       | 6.8       | 8.4     | 8.2       | 1.9             | 2.2       | 2.0                    | 3.0       |
|                     |                    | bottom                | 23.8      | 23.8      | 30.9           | 32.6      | 6.8       | 6.7       | 8.3     | 8.2       | 2.1             | 2.0       | 3.0                    | 2.0       |
| KS                  | 13.5               | surface               | 23.7      | 24.1      | 30.8           | 32.8      | 6.8       | 6.6       | 8.4     | 8.3       | 1.8             | 2.1       | 3.0                    | 2.0       |
|                     |                    | middle                | 23.9      | 24.2      | 30.9           | 32.7      | 6.7       | 6.4       | 8.3     | 8.2       | 2.0             | 1.4       | 7.0                    | 2.0       |
|                     |                    | bottom                | 23.7      | 23.8      | 31.2           | 32.5      | 6.8       | 6.7       | 8.4     | 8.3       | 1.5             | 1.6       | 3.0                    | 3.0       |
| Fresh water station | Conductivity       |                       | Temp (°C) |           | Salinity (ppt) |           | DO (mg/L) |           | pH      |           | Turbidity (NTU) |           | Suspended solid (mg/L) |           |
| F_Filter            | -                  |                       | *         |           | *              |           | *         |           | *       |           | *               |           | *                      |           |
| Lake 1D             | 533                |                       | 24.5      |           | 0.2            |           | 7.1       |           | 7.0     |           | 2.2             |           | 3.0                    |           |
| FD_A                | -                  |                       | 22.4      |           | <0.1           |           | 8.8       |           | 7.3     |           | 2.3             |           | 2.0                    |           |
| FD_B                | -                  |                       | 22.3      |           | <0.1           |           | 8.9       |           | 7.6     |           | 1.9             |           | 2.0                    |           |
| FD_C                | -                  |                       | 22.1      |           | <0.1           |           | 9.3       |           | 7.3     |           | 1.3             |           | 3.0                    |           |
| F Inland_M          | -                  |                       | 23.1      |           | <0.1           |           | 8.5       |           | 7.5     |           | 2.7             |           | 2.0                    |           |

\* No water discharge from the headwall of Hole 5 or 6 during sampling.

| 28-10-2008          | Water depth (m) | Sampling depth (m) | Suspended solid (mg/L) |           | NH <sub>3</sub> -N (mg/L) |           | NO <sub>3</sub> -N (mg/L) |           | NO <sub>2</sub> -N (mg/L) |           | TIN (mg/L) |           | Ortho P (mg/L) |           | Chlorophyll a (ug/L) |           |
|---------------------|-----------------|--------------------|------------------------|-----------|---------------------------|-----------|---------------------------|-----------|---------------------------|-----------|------------|-----------|----------------|-----------|----------------------|-----------|
| Marine Station      |                 |                    | mid-ebb                | mid-flood | mid-ebb                   | mid-flood | mid-ebb                   | mid-flood | mid-ebb                   | mid-flood | mid-ebb    | mid-flood | mid-ebb        | mid-flood | mid-ebb              | mid-flood |
| M_RO1               | 0.5             | surface            | 2.0                    | 2.0       | -                         | -         | -                         | -         | -                         | -         | -          | -         | -              | -         | -                    | -         |
|                     |                 | bottom             | 2.0                    | 3.0       | -                         | -         | -                         | -         | -                         | -         | -          | -         | -              | -         | -                    | -         |
| KLW                 | 13.4            | surface            | 3.0                    | 3.0       | -                         | -         | -                         | -         | -                         | -         | -          | -         | -              | -         | -                    | -         |
|                     |                 | middle             | 2.0                    | 2.0       | -                         | -         | -                         | -         | -                         | -         | -          | -         | -              | -         | -                    | -         |
|                     |                 | bottom             | 3.0                    | 2.0       | -                         | -         | -                         | -         | -                         | -         | -          | -         | -              | -         | -                    | -         |
| M_A                 | 7.6             | surface            | 3.0                    | 2.0       | 0.03                      | 0.06      | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.05       | 0.08      | <0.01          | <0.01     | 2.6                  | 2.4       |
|                     |                 | middle             | 2.0                    | 3.0       | 0.05                      | <0.01     | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.07       | <0.01     | <0.01          | <0.01     | 2.5                  | 2.2       |
|                     |                 | bottom             | 3.0                    | 2.0       | 0.04                      | 0.01      | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.06       | <0.01     | <0.01          | <0.01     | 2.3                  | 2.3       |
| M_Marsh             | 7.7             | surface            | 2.0                    | 2.0       | <0.01                     | 0.08      | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01      | 0.10      | <0.01          | <0.01     | 2.3                  | 2.3       |
|                     |                 | middle             | 2.0                    | 3.0       | <0.01                     | 0.03      | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01      | 0.05      | <0.01          | <0.01     | 2.3                  | 2.0       |
|                     |                 | bottom             | 3.0                    | 2.0       | 0.04                      | 0.03      | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.06       | 0.05      | <0.01          | <0.01     | 2.4                  | 2.4       |
| TTC                 | 9.6             | surface            | 2.0                    | 4.0       | 0.03                      | 0.04      | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.05       | 0.06      | <0.01          | <0.01     | 2.2                  | 2.3       |
|                     |                 | middle             | 3.0                    | 2.0       | 0.04                      | 0.07      | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.06       | 0.09      | <0.01          | <0.01     | 2.4                  | 2.1       |
|                     |                 | bottom             | 3.0                    | 2.0       | <0.01                     | 0.02      | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01      | 0.04      | <0.01          | <0.01     | 2.0                  | 2.1       |
| M_Coral             | 10.0            | surface            | 2.0                    | 3.0       | 0.01                      | 0.01      | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01      | <0.01     | <0.01          | <0.01     | 2.1                  | 2.7       |
|                     |                 | middle             | 2.0                    | 2.0       | 0.02                      | <0.01     | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.04       | <0.01     | <0.01          | <0.01     | 2.3                  | 2.0       |
|                     |                 | bottom             | 4.0                    | 4.0       | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01      | <0.01     | <0.01          | <0.01     | 2.6                  | 2.1       |
| M_B                 | 16.6            | surface            | 2.0                    | 2.0       | <0.01                     | 0.08      | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01      | 0.10      | <0.01          | <0.01     | 2.5                  | 2.4       |
|                     |                 | middle             | 2.0                    | 3.0       | 0.03                      | <0.01     | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.05       | <0.01     | <0.01          | <0.01     | 2.2                  | 2.2       |
|                     |                 | bottom             | 3.0                    | 2.0       | 0.01                      | <0.01     | <0.01                     | <0.01     | <0.01                     | <0.01     | <0.01      | <0.01     | <0.01          | <0.01     | 2.2                  | 2.1       |
| KS                  | 13.5            | surface            | 3.0                    | 2.0       | 0.04                      | <0.01     | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.06       | <0.01     | <0.01          | <0.01     | 2.3                  | 2.1       |
|                     |                 | middle             | 7.0                    | 2.0       | 0.02                      | <0.01     | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.04       | <0.01     | <0.01          | <0.01     | 3.0                  | 2.3       |
|                     |                 | bottom             | 3.0                    | 3.0       | 0.03                      | 0.01      | <0.01                     | <0.01     | <0.01                     | <0.01     | 0.05       | <0.01     | <0.01          | <0.01     | 2.1                  | 1.8       |
| Fresh water station | TKN             | TP                 | Suspended solid (mg/L) |           | NH <sub>3</sub> -N (mg/L) |           | NO <sub>3</sub> -N (mg/L) |           | NO <sub>2</sub> -N (mg/L) |           | TIN (mg/L) |           | Ortho P (mg/L) |           | Chlorophyll a (ug/L) |           |
| F_Filter            | -               | -                  |                        |           | *                         |           | *                         |           | *                         |           | *          |           | *              |           | *                    |           |
| Lake 1D             | 0.30            | 0.20               | 3.0                    |           | 0.07                      |           | 0.15                      |           | 0.02                      |           | 0.24       |           | 0.20           |           | <0.5                 |           |
| FD_A                | -               | -                  | 2.0                    |           | <0.01                     |           | 0.18                      |           | <0.01                     |           | 0.20       |           | <0.01          |           | 1.1                  |           |
| FD_B                | -               | -                  | 2.0                    |           | <0.01                     |           | 0.50                      |           | <0.01                     |           | 0.52       |           | <0.01          |           | <0.5                 |           |
| FD_C                | -               | -                  | 3.0                    |           | <0.01                     |           | 0.11                      |           | <0.01                     |           | 0.13       |           | <0.01          |           | <0.5                 |           |
| F_Inland_M          | -               | -                  | 2.0                    |           | 0.02                      |           | 0.06                      |           | <0.01                     |           | 0.09       |           | <0.01          |           | <0.5                 |           |

\* - no water discharge from the headwall of Hole 5 or 6 during sampling