Table X. Physico-chemical properties, cell counts and VLP counts of Organic Lake samples

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | depths (m) | | | | |
|  | 1.7 | 4.2 | 5.7 | 6.5 | 6.7 |
| ammonia (mg l−1) | 0.108 | ND | 1.22 | 5.29 | 2.32 |
| nitrate (mg l−1) | <0.002 | ND | 0.003 | 0.002 | 0.008 |
| nitrite (mg l−1) | <0.002 | ND | <0.002 | 0.010 | 0.010 |
| SRP (mg l−1) | 0.08 | ND | 0.10 | 0.20 | 0.18 |
| TOC (mg l−1) | 88 | 87 | 110 | 170 | 130 |
| DOC (mg l−1) | 69 | ND | 97 | 150 | 120 |
| total N (mg l−1) | 7.70 | 7.50 | 11 | 24 | 13 |
| total dissolved N (mg l−1) | 0.112 | ND | 1.225 | 5.302 | 2.338 |
| total P (mg l−1) | 1.5 | 1.4 | 3.0 | 7.6 | 3.7 |
| total dissolved P (mg l−1) | 0.509 | ND | 0.805 | 4.5 | 2 |
| total S (mg l−1) | 1010 | 974 | 1020 | 1410 | 950 |
| dissolved S (mg l−1) | 996 | ND | 1250 | 1290 | 995 |
| particulate C:N:P  (molar ratios) | 49:7:1 | NA | 15:2:1 | 17:3:1 | 15:1:1 |
| dissolved C:N:P  (molar ratios) | 350:20:1 | NA | 311:26:1 | 86:10:1 | 155:13:1 |
| cells ml−1 | 1.0±0.4 × 106 | 1.2±3.1 × 106 | 1.8±0.5 × 106 | 2.3±0.8 × 106 | 1.1±0.4 × 106 |
| VLP ml−1 | 5.2±2.1 × 105 | 7.1±1.3 × 105 | 8.8 ±3.4 × 105 | 1.4±0.3 × 106 | 8.6±3.3 × 105 |
| DMS (µg l−1)a | 0.22 (1 m) | 0.58 (2 m) | 19.29 (3 m) | 97.65 (4 m) | 51.77 (5 m) |
| DMS (nM)b | 1.2 (1 m) |  | 4380 (5 m) |  |  |
| DMSP (nM)b | 0.7 (1 m) |  | 1120 (5 m) |  |  |
|  |  |  |  |  |  |

ND data not determined, NA not calculated, SRP soluble reactive phosphate, TOC total organic carbon, DOC dissolved organic carbon, VLP virus like particles, a Franzmann *et al*., 1987, b Gibson *et al.* 1991