Supplementary Information for

The Dark Side of Microbial Processes: Accumulation of Nitrate during Storage of Surface Water in the Dark and the Underlying Mechanism

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Table S1: Sequence statistics for all samples based on raw and post quality control files.

| Parameter                              | Light_1       | Light_2       | Light_3       | Dark_1       | Dark_2       | Dark_3       |
|----------------------------------------|---------------|---------------|---------------|--------------|--------------|--------------|
| Upload: bp Count                       | 406,962,267   | 371,858,269   | 419,684,481   | 389,895,599  | 364,864,402  | 394,181,609  |
| Upload: Sequences Count                | 2,475,763     | 2,306,771     | 2,564,387     | 2,354,574    | 2,208,405    | 2,397,406    |
| Upload: Mean Sequence Length           | 164 ± 28 bp   | 161 ± 25 bp   | 164 ± 27 bp   | 166 ± 29 bp  | 165 ± 29 bp  | 164 ± 29 bp  |
| Upload: Mean GC percent                | 51 ± 6 %      | 50 ± 6 %      | 51 ± 6 %      | 54 ± 5 %     | 53 ± 5 %     | 53 ± 5 %     |
| Artificial Duplicate Reads: Sequence Count | 1,179,756     | 1,129,112     | 1,232,255     | 852,182      | 801,185      | 901,318      |
| Post QC: bp Count                      | 176,861,324   | 158,640,270   | 184,267,846   | 202,863,100  | 197,326,647  | 197,646,181  |
| Post QC: Sequences Count               | 1,139,122     | 1,046,263     | 1,188,924     | 1,310,355    | 1,265,614    | 1,297,218    |
| Post QC: Mean Sequence Length          | 155 ± 43 bp   | 152 ± 40 bp   | 155 ± 41 bp   | 155 ± 43 bp  | 156 ± 42 bp  | 152 ± 43 bp  |
| Post QC: Mean GC percent               | 51 ± 6 %      | 50 ± 7 %      | 51 ± 6 %      | 53 ± 5 %     | 53 ± 5 %     | 53 ± 5 %     |
| Processed: Predicted rRNA Features     | 606,561       | 569,606       | 629,612       | 694,869      | 686,582      | 702,205      |
| Alignment: Identified rRNA Features    | 424,568       | 387,826       | 435,841       | 423,996      | 416,784      | 437,924      |
Figure S1: Spectrum of the light source used.