

Supplementary Table S1. Correlation (Spearman rank order, ρ) between each of the three axes of the principle coordinate analysis (PC1, PC2, and PC3) and each of the measured environmental parameters or depth.

Parameter	ρ		
	PC1	PC2	PC3
Depth	-0.27	0.88	0.19
Temperature	-0.09	-0.74	-0.48
Salinity	-0.92	0.21	0.06
Photosynthetic light (PAR)	0.18	-0.78	-0.37
NO ₂₃	-0.15	0.28	0.53
NO ₂ ⁻	0.11	0.25	0.49
NO ₃ ⁻	-0.22	0.31	0.50
PO ₄ ³⁻	-0.25	0.80	0.09
SI	0.00	0.75	-0.07
O ₂	0.61	-0.57	0.18

Supplementary Table S2. Correlation (Spearman rank order, ρ) between (absolute) differences in measured environmental parameters and bacterial community differences, calculated for all pairs of surface water samples.

Parameter	ρ
Temperature	0.51
Salinity	0.81
Photosynthetic light (PAR)	0.03
NO ₂₃	0.27
NO ₂ ⁻	0.33
NO ₃ ⁻	0.31
PO ₄ ³⁻	0.01
SI	0.55
O ₂	0.72