Supplemental Information

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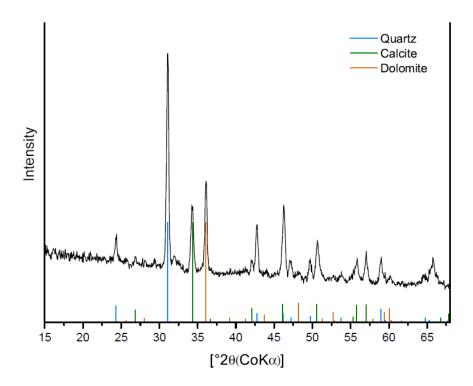


Figure S1. μ XRD analysis of littoral Lake Constance sediment displaying a dominance of Quartz.

5 Table S1. Characteristics of Lake Constance sediment and water column Sediment characteristics

Porewater (%)	22.1 ± 4.3
Silica (weight %)	54.8 ± 2.2
Carbonate (weight %)	17.5 ± 1.3
Total Fe (weight %)	1.4 ± 0.2

Water column characteristics

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рН	8.2 ± 0.1
DOC (mg/L)	1.8 ± 0.0
Nitrate (µM)	52.5±1.1