



Figure S1: Time-dependent variations of Eh in experimental reactors. [Sed] = $14.1 \text{ g L}^{-1} \text{ dw}$, [TOC] = $[11,302 \text{ mmol m}^{-2}]$. $T = 28.2 \pm 1.5^\circ\text{C}$. Vertical dotted lines indicate gas- and nutrient-application events. 0-60 d: $\text{pH} = 4.9 \pm 0.7$, 61-81 d: $\text{pH} = 6.2 \pm 0.2$