

S1 Table: Summary of above and belowground plant biomass, chemical composition of pore water at 21 cm depth and carbon dioxide flux.

	Natural sediment		Sand-amended	
	Bottom	Top	Bottom	Top
CO₂ flux (μmol CO₂.m⁻².s⁻¹)	1.36	3.47	3.07	3.82
Aboveground (g.m⁻²)				
Dead	31.1	127.3	50.0	47.3
Alive	324.9	400.0	269.5	318.7
Total	356.0	527.3	319.5	366.0
Belowground biomass (gdw.m⁻²)	3762.1	6255.8	3170.7	3354.7
Carbon content (C %)	3.95	3.56	1.53	2.95
Nitrogen content (N %)	0.30	0.27	0.12	0.23
C/N ratio	12.95	13.35	12.03	14.76
Salinity (ppt)	30.0	29.5	24.0	20.5
pH	7.40	6.40	5.74	5.80
H₂S (μM)	80.1	0.0	20.8	0
PO₄ (μM)	77.5	0.14	2.39	0.43
NH₄ (μM)	337.5	2.4	5.5	2.2

Values are mean of two independent replicate cores. Adapted from Wigand *et al.* [24]