

1 **Agricultural Induced Impacts on Soil Carbon Cycling and Sequestration in a Seasonally**  
2 **Saturated Wetland**

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6 **Supplemental Materials**

7 Table S1. Wetland hydrologic data in 2005

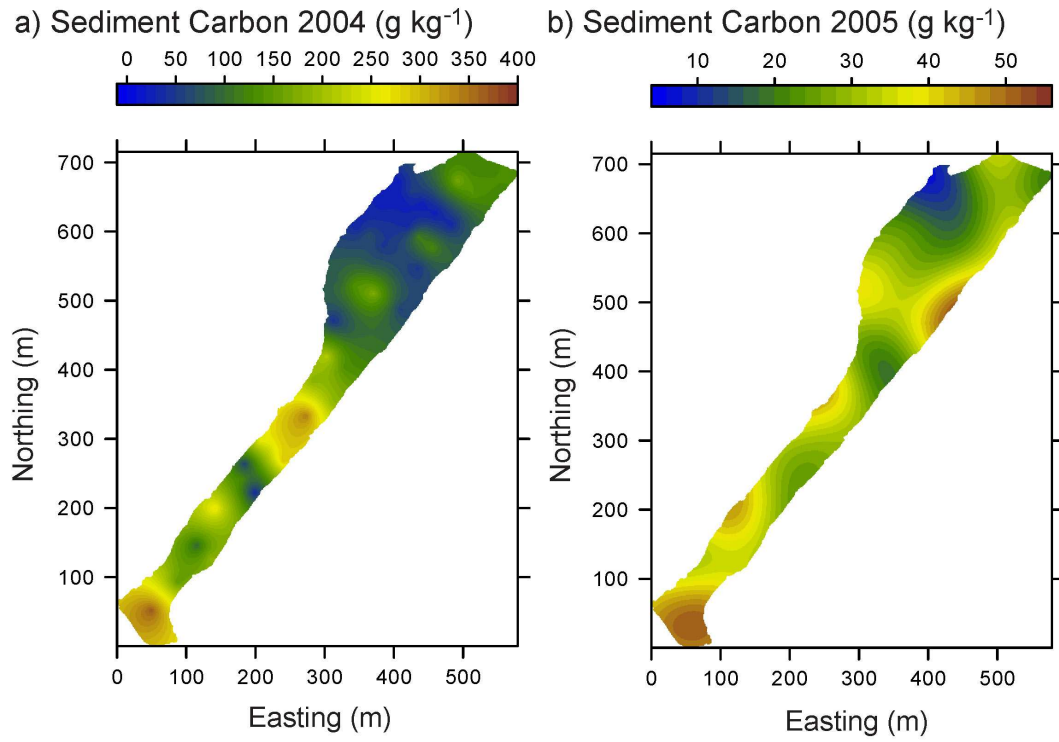
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Inflow (m <sup>3</sup> )	957,000	100% †
Outflow (m <sup>3</sup> )	582,000	61% †
ET (m <sup>3</sup> )	32,000	3% †
Seepage (m <sup>3</sup> )	344,000	36% †
Mean Wetland Area (m <sup>2</sup> )	73,255	
Mean Wetland Volume (m <sup>3</sup> )	43,953	
Mean Inflow Rate (m <sup>3</sup> ·d <sup>-1</sup> )	9,125	
Active Hydrologic Area (m <sup>2</sup> )	20,000	
Mean Residence Time (hrs)	31	
Flow Path Length (m)	250	

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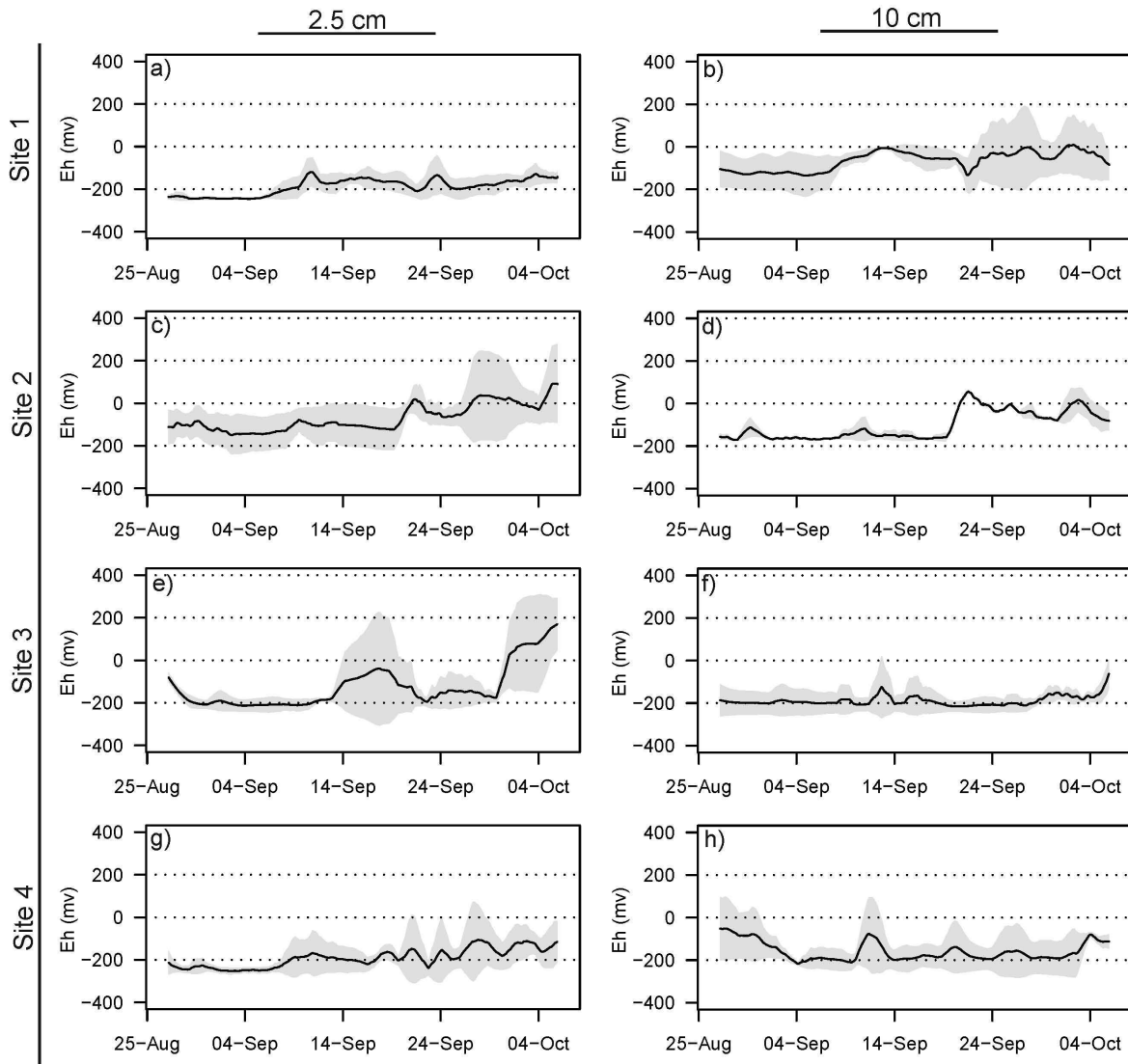
8 † Percent of total flow

9 **Figure S1.** Interpolation map showing the sediment carbon concentration in (a) 2004 and (b)  
10 2005.



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12 **Figure S2.** Redox measurements were taken continuously at two depths (2.5 and 10 cm) within  
13 four different depositional environments with the wetland in 2005. Black line represents the  
14 mean from triplicate measurements at each depth and site  $\pm 1$  standard deviation (gray cloud).



15