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Cycling of oxyanion-forming trace elements in groundwaters from a freshwater deltaic marsh

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ACCEPTED MANUSCRIPT

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2	marsh
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10 11 12 13 14 15 16 17 18 19	^a Department of Earth and Environmental Sciences, Tulane University, New Orleans, LA 70118, USA ^b Louisiana Universities Marine Consortium, Chauvin, LA 70344, USA ^c Department of Marine Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC 27514, USA *Corresponding author Tel.: +1 505 665 3880 E-mail address: ktelfeya@tulane.edu (K. Telfeyan) ¹ present address: Earth and Environmental Sciences Division, Los Alamos National Laboratory, Los Alamos, NM, 87545 USA Abstract
22	Pore waters and surface waters were collected from a freshwater system in southeastern
23	Louisiana to investigate the geochemical cycling of oxyanion-forming trace elements (i.e., Mo,
24	W, As, V). A small bayou (Bayou Fortier) receives input from a connecting lake (Lac des
25	Allemands) and groundwater input at the head approximately 5 km directly south of the
26	Mississippi River. Marsh groundwaters exchange with bayou surface water but are otherwise
27	relatively isolated from outside hydrologic forcings, such as tides, storms, and effects from local
28	navigation canals. Rather, redox processes in the marsh groundwaters appear to drive changes in

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