

## SUPPLEMENTARY MATERIAL

Table S1. Pearson correlation coefficients among different soil parameters from the four quadrants within the Churince system in the Cuatro Ciénegas Basin (Mexico).

	TC	TN	C:N	TP	NH <sub>4</sub> <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>	DOC	DON	DOC:NOD	DOP	pH	CE	Mg <sup>2+</sup>	Ca <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	
<b>TC</b>	1																			
<b>TN</b>	0.194	1																		
<b>C:N</b>	0.335	-0.788**	1																	
<b>TP</b>	0.178	-0.001	0.071	1																
<b>NH<sub>4</sub><sup>+</sup></b>	-0.201	-0.513**	0.421*	-0.062	1															
<b>NO<sub>3</sub><sup>-</sup></b>	0.050	-0.494**	0.479**	0.197	0.414*	1														
<b>DOC</b>	0.299	0.112	-0.049	0.278	-0.073	-0.045	1													
<b>DON</b>	0.073	0.460*	-0.278	-0.221	-0.251	-0.324	-0.123	1												
<b>DOC:NOD</b>	0.067	-0.232	0.104	0.244	0.266	0.130	0.616**	-0.734**	1											
<b>DOP</b>	0.052	0.031	-0.030	-0.582**	0.036	-0.365	-0.075	0.221	-0.032	1										
<b>pH</b>	0.009	0.190	-0.167	0.504**	-0.134	0.054	0.310	0.161	-0.015	-0.205	1									
<b>CE</b>	0.011	-0.118	0.097	-0.193	0.189	0.038	0.155	0.084	-0.071	0.244	0.241	1								
<b>Mg<sup>2+</sup></b>	0.192	0.137	-0.021	0.383*	-0.007	0.001	0.428*	-0.105	0.225	-0.066	0.554**	0.524**	1							
<b>Ca<sup>2+</sup></b>	0.410*	0.278	-0.074	0.432*	-0.340	-0.061	0.161	0.392*	-0.288	-0.313	0.202	0.000	0.198	1						
<b>Na<sup>+</sup></b>	0.009	-0.002	-0.071	0.533**	0.121	0.055	0.345	0.030	0.090	-0.368	0.567**	0.358	0.606**	0.367	1					
<b>K<sup>+</sup></b>	0.282	0.012	0.146	0.386*	0.157	0.265	0.259	0.063	0.000	-0.190	0.330	0.276	0.652**	0.488*	0.510**	1				
<b>HCO<sub>3</sub><sup>-</sup></b>	-0.211	-0.398*	0.348	-0.324	0.385*	0.063	-0.094	-0.300	0.200	0.224	-0.293	-0.083	-0.430*	-0.558**	-0.290	-0.388*	1			
<b>Cl<sup>-</sup></b>	-0.243	-0.322	0.267	-0.373	0.305	-0.048	-0.109	-0.225	0.174	0.327	-0.261	-0.073	-0.425*	-0.646**	-0.470*	-0.507**	0.956**	1		
<b>SO<sub>4</sub><sup>2-</sup></b>	-0.304	-0.183	0.140	-0.328	0.266	-0.075	-0.210	-0.045	0.029	0.285	-0.166	-0.009	-0.451*	-0.619**	-0.402*	-0.650**	0.763**	0.876**	1	

Same acronyms as indicated before.

\*: Correlation is significant at the 0.05 level (2-tailed).

\*\*: Correlation is significant at the 0.01 level (2-tailed).