1 **Mercury horizontal spatial distributions in paddy field/rice and their influencing**
2 **factors in a typical mining area, Guizhou**
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45   **Table S1 THg contents in irrigation water in the study area**

Sample	THg (ng/L)	Date
1 (Mountain streams)	6.2	2019-5-30
	12.3	2019-6-22
	20.4	2019-7-28
2	87.1	2019-5-30
	121.3	2019-6-22
	27.5	2019-7-28
	69.1	2019-8-15
3	51.5	2019-5-30
	66.9	2019-6-22
	23.6	2019-7-28
	25.2	2019-8-15
4	76.4	2019-5-31
	38.7	2019-6-22
	142.5	2019-7-28
	181.4	2019-8-15
5	88.2	2019-5-31
	34.6	2019-7-28
	108.8	2019-8-15
6	125.9	2019-5-31
	95.6	2019-6-22
	10.2	2019-7-28
	31.6	2019-8-15
7	44.8	2019-5-31
	24.6	2019-6-22
	8.1	2019-7-28
	11.4	2019-8-15
8 (Mountain streams)	1.3	2019-5-30
	28.9	2019-7-28
	30.0	2019-8-15
9	76.4	2019-5-30
	31.6	2019-7-28
10	374.0	2019-4-29
	15.0	2019-7-28
	31.9	2019-8-15
Min (n = 31)	1.3	
Max (n = 31)	374.0	
Mean±S.D (n = 31)	62.4±70.5	

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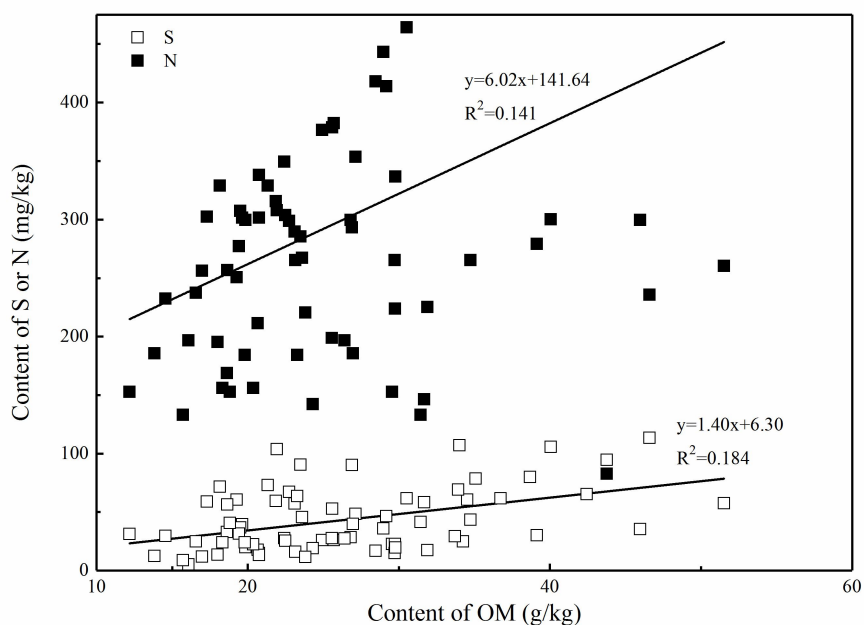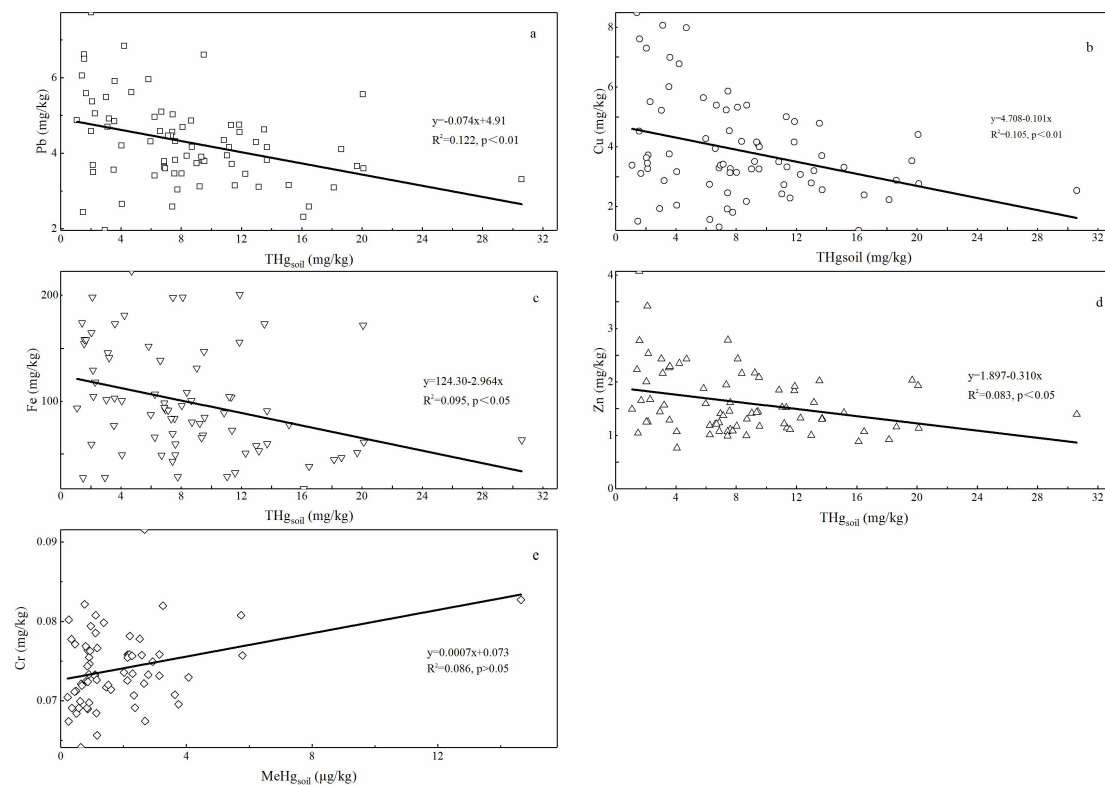**Fig. S1 Soil profiles in the study area**

Fig. S2 Relationships of Alkaline hydrolysis nitrogen (N) and effective sulfur (S) with organic

matter (OM) in paddy soils

Fig. S3 The correlations of Hg contents in paddy soil with Pb (a), Cu (b), Fe (c), Zn (d) and Cr (e)