

Supplementary Materials

Mobility risk and desorption irreversibility of glyphosate and aminomethylphosphonic acid in highly weathered tropical soils of Sri Lanka

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Table 1: Physicochemical properties of soil samples

Soil	Fe, %	Al, %	Ca, mg kg ⁻¹	Mg, mg kg ⁻¹	Clay Content, %	Moisture, %	pH, Water	pH, CaCl ₂	Organic Carbon, %	Residual Concentration, mg kg ⁻¹	
										Gly	AMPA
S1A	2.2±0.0	2.4±0.0	305 ±103	172±60	16±1	3.7±0.5	4.49±0.05	3.65±0.01	2.5±0.2	ND	ND
S1B	4.6±0.1	5.4±0.1	635±	1104±1	22±1	9.1±0.1	4.32±0.1	3.68±0.02	7.4±0.5	ND	ND
S1C	2.9±0.3	2.8±0.1	426±	162±10	10±2	3.3±0.2	4.66±0.02	3.71±0.01	3.2±0.2	ND	ND
S2A	2.6±0.1	2.2±0.1	610±68	239±48	15±1	5.2±0.4	4.60±0.02	3.73±0.01	2.6±0.3	ND	ND
S2B	2.7±0.1	1.8±0.1	566±53	319±26	10±1	6.7±0.2	5.02±0.05	4.07±0.02	2.8±0.1	1.02±0.2	2.36±0.3
S2C	2.6±0.1	2.6±0.1	508±10	429±21	17±2	4.2±0.2	5.04±0.02	4.18±0.02	2.6±0.2	22.6±0.6	18.5±0.5
S3A	6.1±0.2	3.9±0.1	2248±79	1467±207	18±2	14.9±0.2	5.91±0.02	4.95±0.02	6.3±0.2	ND	ND
S3B	5.0±0.1	3.7±0.2	3180±183	904±79	14±1	6.5±0.2	5.30±0.01	4.56±0.01	4.9±0.1	ND	ND
S3C	4.3±0.2	2.4±0.3	1740±199	1359±61	14±1	6.6±0.1	5.11±0.02	3.15±0.03	6.8±0.3	ND	ND
S4A	0.2±0.0	0.4±0.1	512±11	410±27	7±2	3.1±0.2	8.30±0.02	7.5±0.01	1.6±0.3	ND	ND
S4B	2.6±0.2	2.6±0.1	501±13	429±4	8±1	3.1±0.1	4.6±0.01	3.73±0.02	2.6±0.2	23.4±0.2	2.6±0.1
S4C	1.5±0.1	0.8±0.1	512±15	436±9	9±1	3.6±0.1	8.1±0.01	7.2±0.02	2.3±0.3	ND	ND
S5A	5.2±0.5	1.2±0.2	486±15	342±14	14±1	10.8±0.2	6.4±0.02	5.4±0.02	2.4±0.2	ND	ND
S5B	4.0±0.1	1.0±0.1	698±12	526±23	16±2	16.8±0.1	5.60±0.03	5.00±0.01	5.4±0.2	ND	ND
S5C	4.3±0.	1.1±0.1	706±8	458±15	15±2	15.6±0.1	5.10±0.02	4.30±0.02	6.2±0.3	ND	ND

ND – Not detected, Limit of Determination – 0.025 mg kg⁻¹