

**Supplementary material for**

**Quantity and biodegradability of dissolved organic matter released from sequentially leached soils, as influenced by the extent of soil drying prior to rewetting**

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**Table S1: Multivariate linear regression for SUVA<sub>254</sub> as a function of DOC concentration (Fig. 5) in leachates from an arable and a grassland soil at different  $\theta_g$  before rewetting**

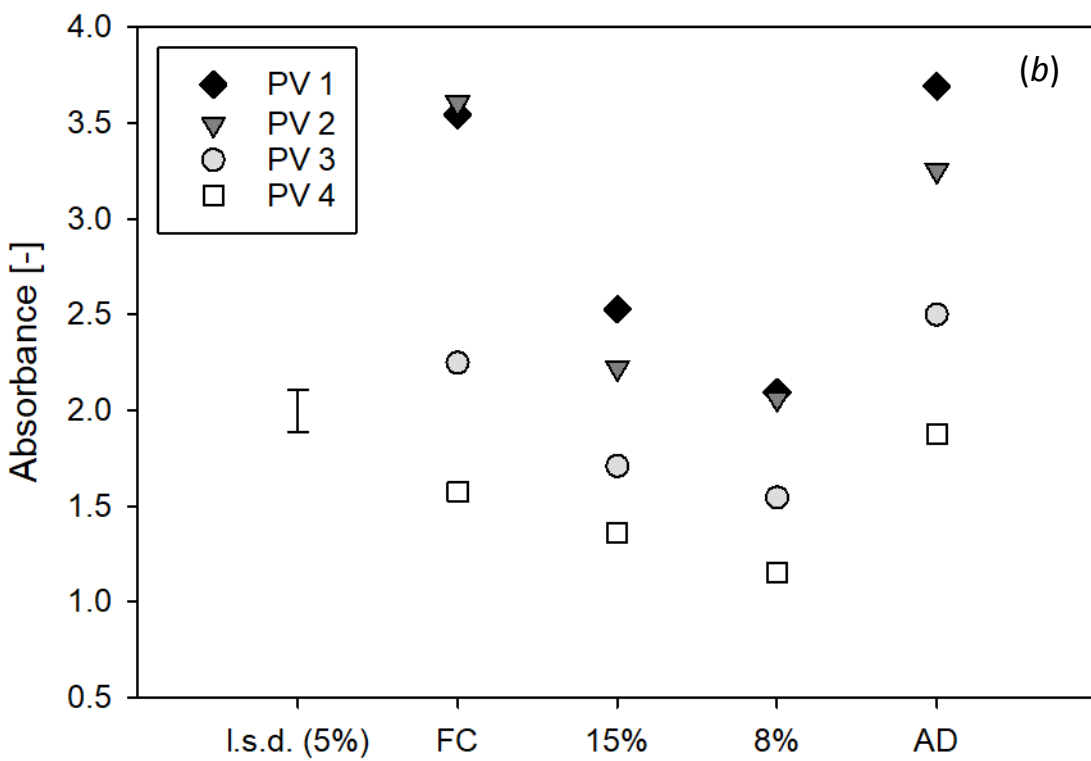
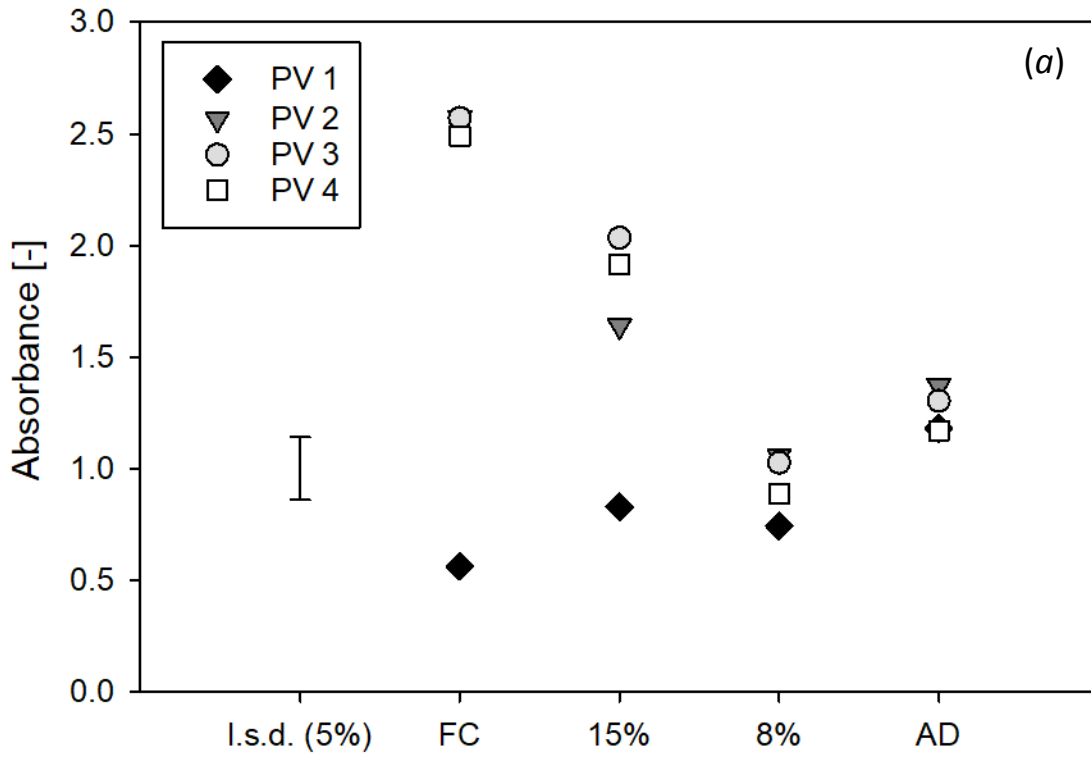
Model:  $y = y_0 + ax$ , where  $y_0$  = intercept and  $a$  = slope ( $R^2 = 0.63$  and  $0.85$  for arable and grassland respectively)

Land use	$\theta_g$ treatment	Intercept		Slope	
		Estimate	<i>P</i> -value	Estimate	<i>P</i> -value
Arable	FC	-1.86	0.388	15.96	<0.001
	15%	30.96	<0.001	-51.21	<0.001
	8%	9.21	<0.001	-8.88	<0.001
	AD	6.77	0.003	-3.29	<0.001
Grassland	FC	9.29	<0.001	-3.28	<0.001
	15%	9.07	0.677	-5.21	0.022
	8%	7.01	<0.001	-3.41	0.884
	AD	5.52	<0.001	-1.17	0.003

**Table S2: Multivariate linear regression for DOC biodegradability (DOC-C<sub>min</sub>) as a function of DOC concentration (Fig. 8a) in leachates from a grassland soil at different  $\theta_g$  before rewetting**

Model:  $y = y_0 + ax$ , where  $y_0$  = intercept and  $a$  = slope ( $R^2 = 0.79$ )

Land use	$\theta_g$ treatment	Intercept		Slope	
		Estimate	<i>P</i> -value	Estimate	<i>P</i> -value
Grassland	FC	271.1	<0.001	-222	<0.001
	15%	186.1	<0.001	-124.4	0.001
	8%	209.9	0.001	-154.6	0.019
	AD	174.1	<0.001	-22.1	<0.001



**Fig. S1.** UV absorbance at 254 nm of the pore volumes leached from an arable (*a*) and a grassland soil (*b*) at their designated  $\theta_g$ . l.s.d. ( $\alpha = 0.05$ ) = 0.28 and 0.22. FC, field capacity; AD, air dry; PV, pore volume.