

**S1 Table ANOVA source information for Table 3**

<b>Bulk density (g/cm<sup>3</sup>)</b>	<b>df</b>	<b>Sum of squares</b>	<b>Mean square</b>	<b>F value</b>	<b>p value</b>
<b>Between Groups</b>	5	0.033	0.007	47.803	0.000
<b>Within Groups</b>	12	0.002	0.000		
<b>Total</b>	17	0.035			
<b>Porosity (%)</b>	<b>df</b>	<b>Sum of squares</b>	<b>Mean square</b>	<b>F value</b>	<b>p value</b>
<b>Between Groups</b>	5	47.584	9.517	47.803	0.000
<b>Within Groups</b>	12	2.389	0.199		
<b>Total</b>	17	49.973			
<b>SOC</b>	<b>df</b>	<b>Sum of squares</b>	<b>Mean square</b>	<b>F value</b>	<b>p value</b>
<b>Between Groups</b>	5	4.984	0.997	7.853	0.002
<b>Within Groups</b>	12	1.523	0.127		
<b>Total</b>	17	6.507			
<b>TN</b>	<b>df</b>	<b>Sum of squares</b>	<b>Mean square</b>	<b>F value</b>	<b>p value</b>
<b>Between Groups</b>	5	0.068	0.014	40.800	0.000
<b>Within Groups</b>	12	0.004	0.000		
<b>MWD</b>	17	0.072			
<b>0.5 - 0.25 mm</b>	<b>df</b>	<b>Sum of squares</b>	<b>Mean square</b>	<b>F value</b>	<b>p value</b>
<b>Between Groups</b>	5	4.574	0.915	15.315	0.000
<b>Within Groups</b>	12	0.717	0.060		
<b>GMD</b>	17	5.291			
<b>&lt; 0.25 mm</b>	<b>df</b>	<b>Sum of squares</b>	<b>Mean square</b>	<b>F value</b>	<b>p value</b>
<b>Between Groups</b>	5	1.992	0.398	23.239	0.000
<b>Within Groups</b>	12	0.206	0.017		
<b>Total</b>	17	2.198			