



**WEATHERING CLASSIFICATION CHART  
(All Lithologies)  
ACARP CoalLog Dictionary v1.0**

<b>Logging Code</b>	<b>Weathering State</b>	<b>Description</b>
R	Residual Soil	Soil developed on extremely weathered rock: the mass structure and substance fabric are no longer evident; there is a large change in volume but the soil has not been significantly transported.
E	Extremely Weathered	<p>Rock is weathered to such an extent that it has 'soil' properties, i.e. it either disintegrates or can be remoulded, in water.</p> <p>Coal has weathered to powdery or clayey soot. Colour ranges from black to medium brown with further deterioration.</p>
D	Distinctly Weathered	<p>Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores.</p> <p>Coal shows some original fabric (cleats, bands, etc.) but is friable between fingers and dispenses in water.</p>
S	Slightly Weathered	<p>Rock is slightly discoloured but shows little or no change of strength from fresh rock. Usually penetrative weathering along defect surfaces.</p> <p>Coal may show discolouration or oxidation of sulphides.</p>
W	Weathered	Degree of weathering not assessed.
FR	Fresh	Rock or coal shows no sign of decomposition.