Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN203** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By:	G. W. Geeves	**Locality:**	Pulletop
Date Desc.:	16/05/89	**Elevation:**	300 metres
Map Ref.:	Sheet No. : 8327 1:100000	**Rainfall:**	No Data
Northing/Long.:	6076900 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	530700 Datum: AGD66	**Drainage:**	Moderately well drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	No Data	**Relief:**	10 metres
Elem. Type:	Hillcrest	**Slope Category:**	Very gently sloped
Slope:	2 %	**Aspect:**	300 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dr2.22
Great Soil Group: Red podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Tall Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam (Heavy); 20-50%, medium gravelly, 6-20mm, angular platy, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Gradual change to -
A2	0.1 - 0.3 m	Yellowish red (5YR4/6-Moist); Light reddish brown (5YR6/4-Dry); ; Sandy clay loam, fine sandy; 50-90%, coarse gravelly, 20-60mm, angular platy, Quartz, coarse fragments; 50-90%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments; Gradual change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Sandy light clay; 50-90%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Gradual change to -
B22	0.6 - 0.8 m	Strong brown (7.5YR5/8-Moist); , 2.5YR46, 10-20% , 5-15mm, Distinct; Sandy clay; 10-20%, medium gravelly, 6-20mm, angular, Sand, coarse fragments;

Morphological Notes

A2	Stony pale A2
B21	Stoney
B22	Stoney, weathered granite

Observation Notes

Similar to AN202 but with stones throughout. No CO3. Pale A2, hardsetting with smooth fabric. Red Podzolic.

Site Notes

20 m. from crest of rise (old quartz rdge or hillock) in grazing paddock with thisck cover of weeds and grasses, no clover.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.62B		3.67K	0.71	1.28	0.07				
0.1 - 0.2	4.44B		2.09K	0.42	0.73	0.05				
0.2 - 0.3	4.57B		3.33K	0.03	0.69	0.61				
0.3 - 0.4	4.95B		5.56K	0.05	0.96	1.55				
0.4 - 0.5	5.35B									
0.7 - 0.8	6.15B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1												
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.7 - 0.8												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.7 - 0.8									

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Laboratory Analyses Completed for this profile

13_NR_AL	Extractable Al(%) - Not recorded
13_NR_MN	Extractable Mn(%) - Not recorded
15_NR_AL	Exchangeable aluminium - method not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct