Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN46** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: G. W. Geeves
Date Desc.: 21/07/88
Map Ref.: Sheet No. : 8327 1:100000
Northing/Long.: 6108400 AMG zone: 55
Easting/Lat.: 527100 Datum: AGD66
Locality:
Elevation: 2804 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Simple-slope
Elem. Type: Hillslope
Slope: 4 %
Pattern Type: Rises
Relief: 20 metres
Slope Category: No Data
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: GN4.12
Great Soil Group: N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
A2	0.1 - 0.3 m	Yellowish red (5YR5/6-Moist); Strong brown (7.5YR5/6-Dry); ; Clay loam, fine sandy; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Light clay; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments;
B22	0.6 - 0.8 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 10-20% , 5-15mm, Distinct; Light medium clay; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments;

Morphological Notes

A2 Pale A2.

Observation Notes

Simpler lower hillslope 400m from crest in rolling hills. Grazing paddock, grasses and old stubble. Texture contrast red soil RBE or RP, same as 44 & 45. No CO3. Red Podzolic?

Site Notes

Uranquinty

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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	4.56B		2.28K	0.51	0.7	0.03				
0.1 - 0.2	4.64B		2.71K	0.56	0.56	0.03				
0.2 - 0.3	5.08B		2.87K	0.72	0.36					
0.3 - 0.4	5.28B		3.56K	1.54	0.28	0.05				
0.4 - 0.5	5.53B									
0.7 - 0.8	5.97B									

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