Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN114** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: G. W. Geeves
Date Desc.: 26/09/88
Map Ref.: Sheet No. : 8427 1:100000
Northing/Long.: 6109800 AMG zone: 55
Easting/Lat.: 548900 Datum: AGD66
Locality:
Elevation: 230 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 low hills 30-90m 3-10%
Morph. Type: Simple-slope
Elem. Type: Footslope
Slope: 6 %
Pattern Type: Low hills
Relief: 40 metres
Slope Category: Gently inclined
Aspect: 340 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: GN2.14
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: No surface coarse fragments

Profile Morphology

Ap	0 - 0.2 m	Dark brown (7.5YR3/4-Moist); ; Fine sandy loam; 0-2%, medium gravelly, 6-20mm, angular platy, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
A2	0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); Reddish brown (5YR5/4-Dry); ; Fine sandy loam (Heavy); Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Fine sandy clay (Light); Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B22	0.6 - 0.8 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

A2 Not bleached
B22 Magnesium nodules at 60-80 cm.

Observation Notes

"Riverina Downs". Pasture grasses, no clover. Gently rolling hills, on foot slope 30m from drainage line. No CO3. (Red) weak A2. Looks "earthy". Red Earth Podzolic intergrade.

Site Notes

Ladysmith

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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	4.6B		2.34K	0.53	0.82	0.13				
0.1 - 0.2	4.61B		2.43K	0.57	0.79	0.37				
0.2 - 0.3	4.92B		2.43K	0.76	0.69	0.03				
0.3 - 0.4	5B		3.45K	1.68	0.76	0.06				
0.4 - 0.5	5.17B									
0.7 - 0.8	5.42B									

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