

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN196 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	G. W. Geeves	Locality:	Marrar
Date Desc.:	15/05/89	Elevation:	340 metres
Map Ref.:	Sheet No. : 8328 1:100000	Rainfall:	No Data
Northing/Long.:	6145200 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	536200 Datum: AGD66	Drainage:	Imperfectly 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:	Lower-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	270 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.22
		Great Soil Group:	N/A

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:

Profile Morphology

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B1	0.1 - 0.4 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Diffuse change to -
B2	0.4 - 0.8 m	Yellowish brown (10YR5/4-Moist); , 2.5YR46, 10-20% , 0-5mm, Distinct; Sandy clay; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules;

Morphological Notes

B2 Some dark charcoal colouring around 50 cm and some soft Mn concretions.

Observation Notes

Yellow earth. Red Earth. Gradational red profile with yellowing at depth, no carbonate similar to AN195 with some dark colouring possibly charcoal at 40-50cm.

Site Notes

Very good growth of grasses and Pattersons curse in grazing paddock. Lower slope 300 m from crest to east in rollong parna country similar to AN194 and AN195.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	4.61B		3.97K	0.6	0.78	0.01			
0.1 - 0.2	5.1B		5.59K	1.06	0.74	0.02			
0.2 - 0.3	5.81B		6.7K	0.01	0.87	1.49			
0.3 - 0.4	6.25B		8.01K	0.03	0.82	2.12			
0.4 - 0.5	6.52B								
0.7 - 0.8	6.68B								

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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