

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN240 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	G. W. Geeves	Locality:	Cowabbie
Date Desc.:	18/05/89	Elevation:	240 metres
Map Ref.:	Sheet No. : 8328 1:100000	Rainfall:	No Data
Northing/Long.:	6171400 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	513200 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:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	3 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0.5 %	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:	Gn2.12
		Great Soil Group:	N/A

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

Vegetation:

Tall Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Gradual change to -
A2	0.1 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Gradual change to -
B21	0.3 - 0.5 m	Red (2.5YR4/6-Moist); ; Fine sandy clay; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Gradual change to -
B22	0.5 - 0.8 m	Red (2.5YR4/6-Moist); , 10R34, 10-20% , 5-15mm, Distinct; , 10YR66, 2-10% , 5-15mm, Distinct; Sandy light clay;

Morphological Notes

Observation Notes

Gradational red profile, probably hardsetting and earthy fabric. No CO3. Red earth similar to previous AN 239 but maybe slightly heavier texture.

Site Notes

Owner: Pat P'Brien. Good thick cover of clover and grasses on flat grazing paddock on level plain.

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.1	5.24B		5.03K	1.32	1.17				
0.1 - 0.2	5.48B		5.12K	1.28	0.81				
0.2 - 0.3	6.01B		5.25K	1.33	0.64				
0.3 - 0.4	6.19B		3.59K	1.64	0.47	0.05			
0.4 - 0.5	5.97B								
0.7 - 0.8	6.67B								

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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