

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AV44 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	
Date Desc.:	02/06/88	Elevation:	160 metres
Map Ref.:	Sheet No. : 8025 1:100000	Rainfall:	No Data
Northing/Long.:	5979900 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	406300 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:	Hills
Morph. Type:	Flat	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	30 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:	DR
		Great Soil Group:	N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.18 m	Brown (7.5YR4/4-Moist); ; Loam; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules;
A2	0.18 - 0.4 m	Yellowish red (5YR5/6-Moist); Light reddish brown (5YR6/4-Dry); ; Clay loam, fine sandy; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules;
B21	0.4 - 0.5 m	Yellowish red (5YR5/8-Moist); ; Light clay; Few (2 - 10 %), Manganiferous, , Nodules; Few (2 - 10 %), Ferruginous, , Nodules;
B22	0.5 - 0.8 m	Strong brown (7.5YR5/6-Moist); , 5YR58, 0-2% , 0-5mm, Faint; Light clay; Very few (0 - 2 %), Manganiferous, , Nodules; Very few (0 - 2 %), Ferruginous, , Nodules;

Morphological Notes

A2	Nor bleached
B22	No efferecence

Observation Notes

Colin Hooper. Footslope 3 degrees up to S. Cropped no lime, oats, much germination of clover, purple spots on leaves. Very reddish brown B horizon Red earth? Non calcic brown?

Site Notes

Lake Rowan

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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	4.6B		3.08K	0.9	0.92	0.14			
0.1 - 0.2	4.38B		2.67K	0.95	0.55	0.17			
0.2 - 0.3	5.26B		2.9K	1.42	0.42	0.22			
0.3 - 0.4	5.76B		3.55K	2.68	0.57	0.59			
0.4 - 0.5	5.98B								
0.7 - 0.8	5.83B								

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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_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