Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN213 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

**Site Information** 

 Desc. By:
 G. W. Geeves
 Locality:
 Culcairn

 Date Desc.:
 16/05/89
 Elevation:
 230 metres

 Map Ref.:
 Sheet No.: 8326
 1:100000
 Rainfall:
 No Data

Northing/Long.: 6049500 AMG zone: 55 Runoff: Moderately rapid
Easting/Lat.: 507800 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 low hills 30-90m 3- Pattern Type: Low hills

10%

Morph. Type:No DataRelief:50 metresElem. Type:FootslopeSlope Category:Very gently slopedSlope:2 %Aspect:360 degrees

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Dy3.21ASC Confidence:Great Soil Group:N/A

Confidence level not specified

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** 

A1	0 - 0.1 m	Brown (7.5YR4/2-Moist); ; Sandy clay loam, fine sandy; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Manganiferous, Medium (2 -6 mm), Nodules; Sharp change to -
A2	0.1 - 0.3 m	Strong brown (7.5YR4/6-Moist); Light brown (7.5YR6/4-Dry); ; Clay loam, fine sandy; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B21	0.3 - 0.6 m	Yellowish brown (10YR5/6-Moist); ; Sandy light clay; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B22	0.6 - 0.8 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 20-50% , 5-15mm, Distinct; Light clay; Few (2 - 10

%), Manganiferous, Medium (2 -6 mm), Nodules;

## **Morphological Notes**

#### **Observation Notes**

#### **Site Notes**

lower oart of a 500m long footslope.

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# **Laboratory Test Results:**

Laboratory										
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	e CEC	ECEC	ESP
m		dS/m		9		Cmol (				%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.76B 5B 5.23B 5.31B 5.31B 5.46B		4.3K 2.98K 3.64K 4.77K	0.51 0.45 0.79 1.64	0.69 0.41 0.33 0.34	0.05 0.02 0.07 0.1				
Depth	CaCO3	Organic	Avail.	Total	Total	Tota				Analysis
m	%	C %	P mg/kg	P %	N %	K %			CS FS %	Silt Clay
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		Grav	imetric/Vo	olumetric V	Vater Co	ntents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar	15 Bar	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

Exchangeable aluminium - method not recorded Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 15\_NR\_CA 15\_NR\_K 15\_NR\_MG 15\_NR\_NA

4B1