Acids Soils in South Eastern Australia **Project Name:** 

Observation ID: 1 **Project Code:** AcidSoils Site ID: AN19

**Agency Name: CSIRO Land and Water (ACT)** 

**Site Information** 

Locality: Desc. By: G. W. Geeves

Date Desc.: 23/08/88 Elevation: 290 metres Map Ref.: Sheet No.: 8327 1:100000 Rainfall: No Data 6076800 AMG zone: 55 Runoff: Northing/Long.: Moderately rapid 524100 Datum: AGD66 Well drained Easting/Lat.: Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Auger boring Substrate Material: No Data Geol. Ref.: No Data

**Land Form** 

Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: Low hills Morph. Type: Upper-slope Relief: 10 metres Elem. Type: Slope Category: Gently inclined Hillslope Aspect: 100 degrees Slope: 7 %

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification:** N/A **Mapping Unit: Principal Profile Form:** DR2.22 ASC Confidence: **Great Soil Group:** N/A

Confidence level not specified

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

Vegetation:

B21

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

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, subangular, Quartz

**Profile Morphology** 

0 - 0.1 m Brown (7.5YR4/4-Moist); Coarse sandy loam; 0-2%, medium gravelly, 6-20mm, subangular, Αp Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; A2 0.1 - 0.2 m Reddish brown (5YR4/4-Moist); Light reddish brown (5YR6/4-Dry); ; Sandy loam; 10-20%, medium gravelly, 6-20mm, subangular platy, Quartz, coarse fragments; 10-20%, medium

gravelly, 6-20mm, subangular platy, Other, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;

0.2 - 0.5 m Red (2.5YR4/8-Moist); ; Sandy clay; 2-10%, fine gravelly, 2-6mm, subangular tabular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2

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

B22 0.5 - 0.6 m Yellowish red (5YR5/6-Moist); ; Sandy clay; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subangular tabular, Other, coarse

fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %),

Ferruginous, Fine (0 - 2 mm), Nodules;

**Morphological Notes** 

Pale A2. A2

R22 Hit rocks below 60cm.

## **Observation Notes**

top slope of small rolling hill. Medium vegetation cover of grass and clover pasture. Grazing paddock relief 10m. Weakly bleached A2, duplex red profile, earthy. Red Podzolic?

## **Site Notes**

Mangoplah

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## **Laboratory Test Results:**

Laboratory			_		0.45			050		
Depth m	рН	1:5 EC dS/m		hangeable Mg	Cations K	Na Cmol (-	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.59B 4.61B 5.14B 5.51B 5.73B 5.94B	uo,	3.87K 2.38K 4.47K 6.84K	0.78 0.67 2.05 3.78	0.46 0.29 0.39 0.42	0.03 0.03 0.04 0.09	,,,,,,			~
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	Density	Pa GV	CS FS	Analysis 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		Grav	imetric/V	olumetric V	Vater Cor	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 1	5 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