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

**Project Code:** Observation ID: 1 AcidSoils Site ID: AN199

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

**Site Information** 

Desc. By: G. W. Geeves Locality: Coolamon Date Desc.: Elevation: 15/05/89 300 metres Sheet No.: 8328 1:100000 Map Ref.: Rainfall: No Data

Northing/Long.: 6147200 AMG zone: 55 Runoff: Moderately rapid 524600 Datum: AGD66 Moderately 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: Rises Morph. Type: Mid-slope Relief: 30 metres Elem. Type: Slope Category: Gently inclined Hillslope 30 degrees 4 % Aspect: Slope:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification:** N/A **Mapping Unit: Principal Profile Form:** Gn2.12 ASC 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: 10-20%, cobbly, 60-200mm, subangular, Quartz

**Profile Morphology** 

0 - 0.1 m Dark reddish brown (5YR3/4-Moist); ; Fine sandy loam (Heavy); 10-20%, coarse gravelly, 20-Ap 60mm, angular, Quartz, coarse fragments; Gradual change to -Yellowish red (5YR4/6-Moist); ; Clay loam; 20-50%, coarse gravelly, 20-60mm, angular, Quartz, AB 0.1 - 0.3 m coarse fragments; Gradual change to B21 Yellowish red (5YR4/6-Moist); ; Sandy light clay; 20-50%, coarse gravelly, 20-60mm, angular, 0.3 - 0.6 m Quartz, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, Shale, coarse fragments; Diffuse change to B22

Dark greyish brown (10YR4/2-Moist); ; Clay loam; 50-90%, coarse gravelly, 20-60mm, subangular 0.6 - 0.8 m

platy, Shale, coarse fragments;

**Morphological Notes** 

stoney AR **B21** stoney

B22 decomposing roots, shale

## **Observation Notes**

Gradational reddish stoney profile with heavier B horizon than the previous Red Earths. Intergrade to red podzolic?

Owner: John Manrahan. Reasonable cover of grasses, weeds and clover on rocky midslope 300 m from crest of quartzite ridge. Common quarts rocks about 5 cm, angular colluvium from stoney ridge.

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## **Laboratory Test Results:**

Laboratory	I C St I C	Juito.								
Depth	pН	1:5 EC		changeable Cations Mg K		Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.63B 4.58B 5.08B 5.55B 5.72B 5.82B		3.11K 3.37K 3.93K 5.63K	0.8 0.87 0.04 0.07	0.78 0.42 0.29 0.33	0.05 0.06 1.33 3.55				
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Parti GV (	cle Size	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/Vo	olumetric V	Vater Con	tents		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 i	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