

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN17 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

**Site Information**

<b>Desc. By:</b>	G. W. Geeves	<b>Locality:</b>	
<b>Date Desc.:</b>	23/06/88	<b>Elevation:</b>	270 metres
<b>Map Ref.:</b>	Sheet No. : 8326 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6062100 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	522800 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Simple-slope	<b>Relief:</b>	10 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1.5 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	DY2.21
		<b>Great Soil Group:</b>	N/A

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

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

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

Ap	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Sandy clay loam, fine sandy; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
A2	0.1 - 0.3 m	Brown (7.5YR4/4-Moist); Light brown (7.5YR6/4-Dry); ; Sandy clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B21	0.3 - 0.6 m	Yellowish brown (10YR5/6-Moist); , 10R48, 20-50% , 0-5mm, Faint; Light medium clay; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B22	0.6 - 0.8 m	Yellowish brown (10YR5/8-Moist); ; Light medium clay; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

**Morphological Notes**

A2	Pale A2.
B21	Few small-(medium) roundedhard red and black nodules
B22	Fairly gradual diffuse boundaries.

**Observation Notes**

Wheat paddock, seedling stage. Rolling plains. 10m relief. Yellowish Podzolic.

**Site Notes**

Cookardinia

**Observation ID: 1**

**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	4.26B		1.99K	0.61	0.76	0.02			
0.1 - 0.2	4.27B		2.87K	0.95	0.56	0.04			
0.2 - 0.3	4.61B		2.82K	1.47	0.4	0.03			
0.3 - 0.4	4.72B		2.82K	2.19	0.36	0.05			
0.4 - 0.5	4.92B								
0.7 - 0.8	5.45B								

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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