

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN239 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

**Site Information**

<b>Desc. By:</b>	G. W. Geeves	<b>Locality:</b>	Cowabbie
<b>Date Desc.:</b>	18/05/89	<b>Elevation:</b>	230 metres
<b>Map Ref.:</b>	Sheet No. : 8328 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6172000 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	509300 Datum: AGD66	<b>Drainage:</b>	Moderately well 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>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	150 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Acidic N/A		<b>Principal Profile Form:</b>	Gn2.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam (Heavy);
B1	0.1 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam, fine sandy;
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Clay loam, sandy; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments;
B22	0.6 - 0.8 m	Red (2.5YR4/6-Moist); ; Fine sandy clay; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, angular, Concrete, coarse fragments;

**Morphological Notes**

**Observation Notes**

Gradational Red Earth similar to AN 237. No CO3, no yellowing, hardsetting and earthy.

**Site Notes**

Cultivated paddock in the middle of gently sloping rise in undulating country.

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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	4.66B		3.76K	0.86	1.18	0.06			
0.1 - 0.2	4.59B		2.99K	0.82	0.82				
0.2 - 0.3	4.97B		3.46K	1.22	0.78	0.03			
0.3 - 0.4	5.42B		3.9K	1.71	0.66	0.03			
0.4 - 0.5	5.95B								
0.7 - 0.8	6.13B								

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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