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

**Project Code:** Site ID: AV101 Observation ID: 1 AcidSoils

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

**Site Information** 

Desc. By: C.J. Chartres Locality:

Date Desc.: Elevation: 25/08/88 140 metres Sheet No.: 8025 1:100000 Map Ref.: Rainfall: No Data Northing/Long.: 5997300 AMG zone: 55 Runoff: Moderately rapid Easting/Lat.: 393500 Datum: AGD66 Imperfectly drained 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: No Data Low hills Pattern Type: Morph. Type: Simple-slope Relief: 15 metres Elem. Type: Slope Category: No Data Footslope Slope: Aspect: 60 degrees 2 %

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

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

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

Brown (7.5YR4/2-Moist); ; Light clay; 0-2%, fine gravelly, 2-6mm, angular platy, Unconsolidated material (unidentified), coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Аp 0 - 0.1 m

Concretions; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Uncemented;

Yellowish red (5YR4/6-Moist); , 10YR32, 10-20% , 5-15mm, Distinct; Medium clay; 2-10%, B21 0.1 - 0.5 m

medium gravelly, 6-20mm, angular platy, Unconsolidated material (unidentified), coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few (2 - 10 %),

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

B22 0.5 - 0.8 m Strong brown (7.5YR4/6-Moist); , 10YR32, 10-20% , 5-15mm, Distinct; Medium clay; 2-10%,

medium gravelly, 6-20mm, angular platy, Unconsolidated material (unidentified), coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few (2 - 10 %),

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

**Morphological Notes** 

CO3 heaps. B21 **B22** CO3 less.

**Observation Notes** 

ploughed paddock, footslope of limestone hill? Calcareous Brown clay.

**Site Notes** 

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Acids Soils in South Eastern Australia

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## **Laboratory Test Results:**

Depth	рН	1:5 EC		hangeable			xchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Иg	К	Na Cmol (+)	Acidity /kg			%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	7.35B 7.55B 7.66B 7.72B 7.86B 7.98B		19.78K 22.88K 20.1K 17.95K	3.15 5.21 7.21 7.91	0.97 0.84 0.7 0.64	0.32 0.95 2 2.55				
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Partic GV C		Analysis 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 Cont	ents	1	K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar r	nm/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

Extractable Min(%) - 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