

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AN104 **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>     | 10/08/88                  | <b>Elevation:</b> | 290 metres              |
| <b>Map Ref.:</b>       | Sheet No. : 8428 1:100000 | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 6158900 AMG zone: 55      | <b>Runoff:</b>    | Slow                    |
| <b>Easting/Lat.:</b>   | 553400 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> | Gently undulating plains <9m<br>1-3% | <b>Pattern Type:</b>   | Rises              |
| <b>Morph. Type:</b>     | Mid-slope                            | <b>Relief:</b>         | 5 metres           |
| <b>Elem. Type:</b>      | Hillslope                            | <b>Slope Category:</b> | Very gently sloped |
| <b>Slope:</b>           | 1 %                                  | <b>Aspect:</b>         | 150 degrees        |

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

|  |  |                                |        |
|--|--|--------------------------------|--------|
| <b>Australian Soil Classification:</b> |  | <b>Mapping Unit:</b>           | N/A    |
| N/A                                    |  | <b>Principal Profile Form:</b> | GN2.11 |
| <b>ASC Confidence:</b>                 |  | <b>Great Soil Group:</b>       | N/A    |
| Confidence level not specified         |  |                                |        |

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

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

**Profile Morphology**

|     |             |   |
|-----|-------------|---|
| A1  | 0 - 0.2 m   | Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam (Heavy);   |
| B1  | 0.2 - 0.3 m | Dark red (2.5YR3/6-Moist); ; Clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments;   |
| B21 | 0.3 - 0.6 m | Red (2.5YR4/6-Moist); ; Sandy light clay; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Nodules;          |
| B22 | 0.6 - 0.8 m | Yellowish red (5YR5/8-Moist); ; Sandy medium clay; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Nodules; |

**Morphological Notes**

**Observation Notes**

Jim Harris. Cereal crop paddock, some clover undersown? Gradational profile, no carbonate, RE.

**Site Notes**

June

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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           | Acidity |      | %   |
|           |       |        |                      |      |      | Cmol (+)/kg  |         |      |     |
| 0 - 0.1   | 4.15B |        | 1.9K                 | 0.45 | 0.95 | 0.01         |         |      |     |
| 0.1 - 0.2 | 3.98B |        | 1.76K                | 0.46 | 0.67 | 0.01         |         |      |     |
| 0.2 - 0.3 | 4.39B |        | 3.41K                | 1.08 | 0.62 | 0.03         |         |      |     |
| 0.3 - 0.4 | 4.97B |        | 4.33K                | 1.82 | 0.55 | 0.03         |         |      |     |
| 0.4 - 0.5 | 5.4B  |        |                      |      |      |              |         |      |     |
| 0.7 - 0.8 | 5.72B |        |                      |      |      |              |         |      |     |

[illegible][illegible]

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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           |