

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** LS30 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

|                        |                       |                   |                         |
|------------------------|-----------------------|-------------------|-------------------------|
| <b>Desc. By:</b>       | McKane, Dermot        | <b>Locality:</b>  |                         |
| <b>Date Desc.:</b>     | 15/07/93              | <b>Elevation:</b> | 273 metres              |
| <b>Map Ref.:</b>       | Sheet No. : 8427 DGPS | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 6104408 AMG zone: 55  | <b>Runoff:</b>    | Moderately rapid        |
| <b>Easting/Lat.:</b>   | 549256 Datum: AGD66   | <b>Drainage:</b>  | Moderately well drained |

**Geology**

|                      |                       |                                    |         |
|----------------------|-----------------------|------------------------------------|---------|
| <b>ExposureType:</b> | Undisturbed soil core | <b>Conf. Sub. is Parent. Mat.:</b> | No Data |
| <b>Geol. Ref.:</b>   | No Data               | <b>Substrate Material:</b>         | Quartz  |

**Land Form**

|                         |           |                        |             |
|-------------------------|-----------|------------------------|-------------|
| <b>Rel/Slope Class:</b> | No Data   | <b>Pattern Type:</b>   | No Data     |
| <b>Morph. Type:</b>     | Mid-slope | <b>Relief:</b>         | No Data     |
| <b>Elem. Type:</b>      | Hillslope | <b>Slope Category:</b> | No Data     |
| <b>Slope:</b>           | 9 %       | <b>Aspect:</b>         | 315 degrees |

**Surface Soil Condition (dry):** Soft

**Erosion:** Partial, Minor (gully)

**Soil Classification**

|  |  |                                |     |
|--|--|--------------------------------|-----|
| <b>Australian Soil Classification:</b>                         |  | <b>Mapping Unit:</b>           | N/A |
| Paralithic Leptic Rudosol Slightly gravelly Loamy Very shallow |  | <b>Principal Profile Form:</b> | N/A |
| <b>ASC Confidence:</b>   |  | <b>Great Soil Group:</b>       | N/A |
| Confidence level not specified                                 |  |                                |     |

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

|    |              |  |
|----|--------------|--|
| A1 | 0 - 0.06 m   | Brown (7.5YR4/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, dispersed, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; |
| C  | 0.06 - 0.6 m | Yellowish red (5YR5/6-Moist); ; Coarse sandy light clay; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 50-90%, medium gravelly, 6-20mm, subangular tabular, dispersed, coarse fragments; Field pH 6.5 (Raupach);   |

**Morphological Notes**

**Observation Notes**

**Site Notes**

T. CARLISLE, TYWONG

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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<br>Cmol (+)/kg | Acidity |      | %    |
| 0 - 0.06   | 5.13A | 0.077A | 2.1J                 | 0.7 | 0.73 | 0                 |         | 6.8I | 0.00 |
| 0.06 - 0.6 | 6.39A | 0.031A | 1.3J                 | 1.5 | 0.18 | 0.06              |         | 3.7I | 1.62 |

| Depth      | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk    | Particle |     | Size | Analysis |      |
|------------|-------|---------|--------|-------|-------|-------|---------|----------|-----|------|----------|------|
| m          | %     | C       | P      | P     | N     | K     | Density | GV       | CS  | FS   | Silt     | Clay |
|            |       | %       | mg/kg  | %     | %     | %     | Mg/m3   |          |     | %    |          |      |
| 0 - 0.06   |       | 1.96C   |        |       |       |       |         |          | 66I |      | 17       | 17   |
| 0.06 - 0.6 |       | 0.33C   |        |       |       |       |         |          | 64I |      | 1        | 35   |

[illegible]

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**Laboratory Analyses Completed for this profile**

|          |  |
|----------|--|
| 15F1_CA  | Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts |
| 15F1_K   | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F1_MG  | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F1_NA  | Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts                 |
| 15F3     | CEC by 0.01M silver-thiourea (AgTU)+   |
| 15L1     | Base saturation percentage (BSP)   |
| 15N1     | Exchangeable sodium percentage (ESP)   |
| 3A1      | EC of 1:5 soil/water extract   |
| 4A1      | pH of 1:5 soil/water suspension  |
| 6B3      | Total organic carbon - high frequency induction furnace, infrared                      |
| P10_NR_C | Clay (%) - Not recorded  |
| P10_NR_S | Sand (%) - Not recorded  |
| P10_NR_Z | Silt (%) - Not recorded  |