

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** LS29 **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> | 288 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8427 DGPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 6106095 AMG zone: 55  | <b>Runoff:</b>    | Rapid      |
| <b>Easting/Lat.:</b>   | 549825 Datum: AGD66   | <b>Drainage:</b>  | No Data    |

**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>           | 7 %       | <b>Aspect:</b>         | 90 degrees |

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

|   |  |                                |     |
|---|--|--------------------------------|-----|
| <b>Australian Soil Classification:</b>                    |  | <b>Mapping Unit:</b>           | N/A |
| Paralithic Leptic Rudosol Slightly gravelly Loamy 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:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

|    |               |   |
|----|---------------|---|
| A1 | 0 - 0.16 m    | Reddish yellow (7.5YR6/5-Moist); ; Sandy loam; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; |
| C  | 0.16 - 0.43 m | Reddish brown (5YR4/4-Moist); Pink (5YR8/3-Dry); ; Coarse sandy clay loam; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;   |
| R  | 0.43 - 0.77 m | Rock  |

**Morphological Notes**

**Observation Notes**

**Site Notes**

D. BYE

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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      |      |      | %    |
|             |       |        |                      |      |      |    | (+)/kg       |      |      |      |
| 0 - 0.16    | 5.03A | 0.065A | 0.86J                | 0.31 | 0.38 | 0  |              | 3.6I |      | 0.00 |
| 0.16 - 0.43 | 5.77A | 0.035A | 1.4J                 | 0.5  | 0.17 | 0  |              | 2.9I |      | 0.00 |

| 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 - 0.16    |       | 0.87C   |        |       |       |       |         |          | 82I |      | 4        | 14   |
| 0.16 - 0.43 |       | 0.28C   |        |       |       |       |         |          | 73I |      | 3        | 24   |

[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  |