

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD51 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

| | | | |
|------------------------|--------------------------|-------------------|------------|
| Desc. By: | McKane, Dermot | Locality: | |
| Date Desc.: | 15/07/93 | Elevation: | 253 metres |
| Map Ref.: | Sheet No. : 8327 1:25000 | Rainfall: | No Data |
| Northing/Long.: | 6122497 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 534577 Datum: AGD66 | Drainage: | No Data |

Geology

| | | | |
|----------------------|-----------------------|------------------------------------|---------|
| ExposureType: | Undisturbed soil core | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|---------|------------------------|-------------|
| Rel/Slope Class: | No Data | Pattern Type: | No Data |
| Morph. Type: | No Data | Relief: | No Data |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | 3 % | Aspect: | 270 degrees |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|---|--|--------------------------------|-----|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Mottled Eutrophic Yellow Dermosol Medium Non-gravelly Loamy Clayey Very deep | | Principal Profile Form: | N/A |
| ASC Confidence: | | Great Soil Group: | N/A |
| Confidence level not specified | | | |

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|-----|---------------|---|
| A1 | 0 - 0.13 m | Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Common, fine (1-2mm) roots; Common, very fine (0-1mm) |
| B1 | 0.13 - 0.67 m | Red (2.5YR4/6-Moist); ; Clay 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, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common, fine (1-2mm) roots; Common, very fine (0-1mm) roots; |
| B21 | 0.67 - 1.5 m | Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules, weak, segregations; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, weak, segregations; |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|-------|--------|------|-----------------|-----------|-------------|----------------------|-------|------|------|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0 - 0.13 | 4.89A | 0.079A | 3.1J | 0.95 | 0.97 | 0 | | 7.8I | | 0.00 |
| 0.13 - 0.67 | 6.78A | 0.022A | 5.7J | 1.7 | 0.88 | 0 | | 10.2I | | 0.00 |
| 0.67 - 1.5 | 6.06A | 0.087A | 5.5J | 4.5 | 0.74 | 0.11 | | 12.7I | | 0.87 |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | Size | Analysis |
|-------------|-------|---------|--------|-------|-------|-------|---------|----------|------|----------|
| m | % | C | P | P | N | K | Density | GV | CS | Silt |
| | | % | mg/kg | % | % | % | Mg/m3 | | FS | Clay |
| | | | | | | | | | % | |
| 0 - 0.13 | | 1.47C | | | | | | 29.4I | | 16.7 |
| 0.13 - 0.67 | | 0.35C | | | | | | 46.5I | | 11.6 |
| 0.67 - 1.5 | | 0.32C | | | | | | 49.8I | | 14.2 |

[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 |