

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD40 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

| | | | |
|------------------------|-----------------------|-------------------|-------------------------|
| Desc. By: | McKane, Dermot | Locality: | |
| Date Desc.: | 15/07/93 | Elevation: | 239 metres |
| Map Ref.: | Sheet No. : 8327 DGPS | Rainfall: | No Data |
| Northing/Long.: | 6123250 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 539530 Datum: AGD66 | Drainage: | Moderately well drained |

Geology

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

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: | 2 % | Aspect: | 180 degrees |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-----|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Mottled Eutrophic Brown 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

| | | |
|-----|---------------|--|
| A11 | 0 - 0.16 m | Dark brown (7.5YR3/3-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, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Smooth change to - |
| B1 | 0.16 - 0.66 m | Yellowish red (5YR4/8-Moist); ; Light clay; 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, Dry; Weak consistence; Few, very fine (0-1mm) roots; Clear, Smooth change to - |
| B21 | 0.66 - 1.82 m | Strong brown (7.5YR5/6-Moist); Mottles, 2-10% , Distinct; Mottles, 0-2% , Faint; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Manganiferous, , ; Few, very fine (0-1mm) roots; Clear, Smooth change to - |
| B22 | 1.82 - 1.98 m | Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Distinct; Mottles, 0-2% , Faint; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Manganiferous, , ; Gradual, Smooth change to - |

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 - 0.16 | 5.29A | 0.052A | 3J | 0.8 | 1.1 | 0 | | 7.8I | | 0.00 |
| 0.16 - 0.66 | 6.48A | 0.028A | 5.7J | 3.3 | 0.66 | 0.02 | | 11I | | 0.18 |
| 0.66 - 1.82 | 6.48A | 0.099A | 6.2J | 5.6 | 0.86 | 0.18 | | 14I | | 0.29 |
| 1.82 - 1.98 | 7.96A | 0.045A | 11.7J | 9.9 | 1.1 | 0.85 | | 23.4I | | 3.63 |

| 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 | | 1.24C | | | | | | | 411 | | 14.6 | 44.4 |
| 0.16 - 0.66 | | 0.42C | | | | | | | 61.4I | | 9.6 | 29 |
| 0.66 - 1.82 | | 0.37C | | | | | | | 67.9I | | 10.5 | 21.6 |
| 1.82 - 1.98 | | 0.1C | | | | | | | 74.4I | | 9.5 | 16.1 |

[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 |