

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD59 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

| | | | |
|------------------------|-----------------------|-------------------|------------|
| Desc. By: | McKane, Dermot | Locality: | |
| Date Desc.: | 15/07/93 | Elevation: | 225 metres |
| Map Ref.: | Sheet No. : 8327 DGPS | Rainfall: | No Data |
| Northing/Long.: | 6121148 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 533795 Datum: AGD66 | Drainage: | No Data |

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: | 3 % | Aspect: | 225 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

| | | |
|-----|---------------|---|
| A1 | 0 - 0.15 m | Reddish brown (5YR4/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Clear change to - |
| B1 | 0.15 - 0.52 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, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Clear change to - |
| B21 | 0.52 - 0.78 m | Strong brown (7.5YR5/8-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Faint; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 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 cutans, 10-50% of ped faces or walls coated; Few, very fine (0-1mm) roots; Clear change to - |
| B22 | 0.78 - 1.8 m | Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Distinct; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Manganiferous, , ; Clear change to - |
| BC | 1.8 - 2 m | Mottles, 2-10% , Distinct; Mottles, 2-10% , Faint; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Granite, coarse fragments; |

Morphological Notes

Observation Notes

Site Notes

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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 Cmol (+)/kg | Acidity | | % |
| 0 - 0.15 | 5.37A | 0.065A | 2.5J | 0.44 | 0.63 | 0.02 | | 6.5I | 0.31 |
| 0.15 - 0.52 | 6.43A | 0.036A | 4.7J | 1.2 | 0.47 | 0.05 | | 7.8I | 0.64 |
| 0.52 - 0.78 | 7.49A | 0.04A | 7.5J | 3.6 | 0.93 | 0.08 | | 12.8I | 0.63 |
| 0.78 - 1.8 | 7.79A | 0.047A | 9.2J | 8 | 1.2 | 0.23 | | 20.6I | 1.12 |
| 1.8 - 2 | 8.06A | 0.071A | 7.2J | 6.7 | 0.86 | 0.39 | | 14.3I | 2.73 |

| 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 - 0.15 | | 0.96C | | | | | | | 19.9I | | 12.9 | 67.2 |
| 0.15 - 0.52 | | 0.37C | | | | | | | 35.8I | | 11.4 | 52.8 |
| 0.52 - 0.78 | | 0.18C | | | | | | | 54.3I | | 9.4 | 36.3 |
| 0.78 - 1.8 | | 0.11C | | | | | | | 65.9I | | 10.1 | 24 |
| 1.8 - 2 | | 0.11C | | | | | | | 41.6I | | 12.6 | 45.8 |

[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 |