

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD28 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

| | | | |
|------------------------|--------------------------|-------------------|------------|
| Desc. By: | McKane, Dermot | Locality: | |
| Date Desc.: | 15/07/93 | Elevation: | 248 metres |
| Map Ref.: | Sheet No. : 8327 1:25000 | Rainfall: | No Data |
| Northing/Long.: | 6123710 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 539530 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: | 2 % | Aspect: | 225 degrees |

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

| | | |
|----------------------------------------------------------------------------------|--------------------------------|-----|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Mottled Eutrophic Brown Dermosol Medium Non-gravelly Clay-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 - 0.12 m | Dark brown (7.5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; |
| B1 | 0.12 - 0.6 m | Yellowish red (5YR5/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Fragments, weak, segregations;Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; |
| B21 | 0.6 - 0.92 m | Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Fragments; Field pH 6 (pH meter); |
| B22 | 0.92 - 1.4 m | Strong brown (7.5YR5/8-Moist); Mottles, 2-10% , Distinct; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (pH meter); |
| B23 | 1.4 - 1.63 m | Strong brown (7.5YR5/8-Moist); Mottles, 2-10% , Faint; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (pH meter); |

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 - 0.12 | 4.91A | 0.271A | 2.9J | 0.62 | 1.2 | 0.06 | | 8.7I | 0.69 |
| 0.12 - 0.6 | 7.38A | 0.032A | 5.9J | 1.6 | 1 | 0.07 | | 9.7I | 0.72 |
| 0.6 - 0.92 | 8A | 0.076A | 10.7J | 3.5 | 1.2 | 0.06 | | 12.3I | 0.49 |
| 0.92 - 1.4 | 6.67A | 0.084A | 7.4J | 6.6 | 0.94 | 0.38 | | 13.7I | 2.77 |
| 1.4 - 1.63 | 7.46A | 0.078A | 9.4J | 7.8 | 1 | 0.68 | | 17.3I | 3.93 |

| 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 - 0.12 | | 1.72C | | | | | | | 40I | | 14.8 | 45.2 |
| 0.12 - 0.6 | | 0.29C | | | | | | | 49.5I | | 12.2 | 38.3 |
| 0.6 - 0.92 | | 0.27C | | | | | | | 60.7I | | 12.2 | 27.1 |
| 0.92 - 1.4 | | 0.27C | | | | | | | 72.1I | | 8.9 | 19 |
| 1.4 - 1.63 | | 0.27C | | | | | | | 65.3I | | 15.3 | 19.4 |

[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 |