Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **BD63** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: McKane, Dermot
Date Desc.: 15/07/93
Map Ref.: Sheet No. : 8327 1:25000
Northing/Long.: 6122438 AMG zone: 55
Easting/Lat.: 535893 Datum: AGD66
Locality:
Elevation: 246 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: 3 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Red Dermosol Medium Non-gravelly Loamy Clayey Deep
Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
Confidence level not specified
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.16 m	Dark brown (7.5YR3/4-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; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, fine (1-2mm) roots; Many, very fine (0-1mm) roots;
B1	0.16 - 0.55 m	Yellowish red (5YR5/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few, fine (1-2mm) roots; Common, very fine (0-1mm) roots;
B21	0.55 - 0.9 m	Yellowish red (5YR4/6-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Faint; Light clay; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few, very fine (0-1mm) roots;
B22	0.9 - 1.45 m	Yellowish brown (10YR5/6-Moist); Mottles, 20-50% , Distinct; Mottles, 20-50% , Distinct; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few (2 - 10 %), Manganiferous, 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	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.16	5.32A	0.065A	3.2J	0.61	0.61	0.07		8.2I		0.85
0.16 - 0.55	6.08A	0.036A	5.6J	1.5	1.5	0.06		9.7I		0.62
0.55 - 0.9	7A	0.059A	9J	2.5	0.57	0.1		12.7I		0.79
0.9 - 1.45	7.68A	0.08A	10.5J	4.4	0.88	0.05		14.7I		0.34

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.16		1.44C							28.1I		20.4	51.5
0.16 - 0.55		0.42C							46.6I		14.2	39.2
0.55 - 0.9		0.61C							50.4I		15.6	34
0.9 - 1.45		0.25C							58I		12.7	29.3

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.16										
0.16 - 0.55										
0.55 - 0.9										
0.9 - 1.45										

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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