Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS14** **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. : 8427 DGPS
Northing/Long.: 6100779 AMG zone: 55
Easting/Lat.: 547929 Datum: AGD66
Locality:
Elevation: 271 metres
Rainfall: No Data
Runoff: Rapid
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: 9 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 225 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kandosol Medium Slightly gravelly Loamy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: N/A

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

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.07 m	Dark brown (7.5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
A2	0.07 - 0.21 m	Brown (7.5YR5/4-Moist); ; Clay loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; 50-90%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 5.5 (Raupach);
B1	0.21 - 0.45 m	Brown (7.5YR5/4-Moist); ; Medium sandy clay loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach);
B21	0.45 - 0.6 m	Yellowish red (5YR4/8-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Platy; Smooth-ped fabric; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach);

Morphological Notes

A1 Hydrophobic.

Observation Notes

Site Notes

B. MILLER, CASEBROOK

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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 - 0.07	4.67A	0.148A	1.1J	0.35	0.65	0		4.5I		0.00
0.07 - 0.21	5.14A	0.059A	1.1J	0.5	0.26	0.01		2.6I		0.38
0.21 - 0.45	5.57A	0.042A	1.1J	0.78	0.21	0		2.6I		0.00
0.45 - 0.6	5.59A	0.043A	0.89J	2.8	0.66	0.2		5.4I		3.70

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 - 0.07		1.68C							66I		17	17
0.07 - 0.21		0.62C							56I		15	29
0.21 - 0.45		0.31C							73I		3	24
0.45 - 0.6		0.23C							50I		12	38

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 - 0.07									
0.07 - 0.21									
0.21 - 0.45									
0.45 - 0.6									

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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