Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS69** **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.: 6104676 AMG zone: 55
Easting/Lat.: 548815 Datum: AGD66
Locality:
Elevation: 234 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: 5 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Class Undetermined Yellow Chromosol Thick Non-gravelly Loamy Clayey Very 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 - 0.23 m	Brown (7.5YR4/4-Moist); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots;
A2	0.23 - 0.43 m	Light brown (7.5YR6/4-Moist); Pinkish yellow (7.5YR8/2-Dry); ; Coarse sandy 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, Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, Siltstone, coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;
AB	0.43 - 0.64 m	Brownish yellow (10YR6/6-Moist); Mottles, 10-20% , Faint; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, dispersed, Siltstone, coarse fragments; Field pH 6.5 (Raupach);
B21	0.64 - 1.35 m	Brownish yellow (10YR6/6-Moist); Mottles, 20-50% , Distinct; Light medium clay; Weak grade of structure, 5-10 mm, Platy; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Field pH 7 (Raupach);
B22	1.35 - 2 m	Strong brown (7.5YR5/8-Moist); Mottles, 10-20% , Distinct; Light clay; Weak grade of structure, 2-5 mm, Platy; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Few cutans, <10% of ped faces or walls coated; Field pH 7.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

T. CARLISLE, TYWONG

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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 - 0.23	5.27A	0.067A	2.2J	0.42	0.67	0		6.2I		0.00
0.23 - 0.43	6.56A	0.021A	2J	0.38	0.29	0.01		5.2I		0.19
0.43 - 0.64	6.89A	0.016A	5.2J	1.7	0.36	0.04		8.8I		0.45
0.64 - 1.35	7.8A	0.037A	7.4J	4	0.61	0.2		12.9I		1.55
1.35 - 2	8.33A	0.039A	5.3J	3.6	0.41	0.3		9.9I		3.03

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 - 0.23		0.93C							73I		3	24
0.23 - 0.43		0.19C							82I		4	14
0.43 - 0.64		0.1C							50I		12	38
0.64 - 1.35		0.08C							44I		12	44
1.35 - 2		0.08C							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 - 0.23									
0.23 - 0.43									
0.43 - 0.64									
0.64 - 1.35									
1.35 - 2									

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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