Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS68** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	McKane, Dermot	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	218 metres
Map Ref.:	Sheet No. : 8327 DGPS	**Rainfall:**	No Data
Northing/Long.:	6107610 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	544928 Datum: AGD66	**Drainage:**	Imperfectly drained

Geology

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

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:	4 %	**Aspect:**	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Class Undetermined Red Chromosol Medium 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 - 0.11 m	Brown (7.5YR4/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots;
B1	0.11 - 0.65 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, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;
B21	0.65 - 1.05 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, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Field pH 7 (Raupach);
B22	1.05 - 2 m	Brownish yellow (10YR6/8-Moist); Mottles, 20-50% , Distinct; Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Many cutans, >50% of ped faces or walls coated; Many (20 - 50 %), Manganiferous, , ; Field pH 7 (Raupach);

Morphological Notes

Observation Notes

Site Notes

L. RYAN, GLANDORE

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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 - 0.11	5.24A	0.062A	2.5J	0.4	0.83	0.03		7I		0.43
0.11 - 0.65	5.59A	0.035A	2.6J	0.61	0.7	0.03		5.4I		0.56
0.65 - 1.05	7.49A	0.043A	7.5J	2.1	0.9	0.04		11.2I		0.36
1.05 - 2	7.59A	0.045A	6.9J	2.4	0.81	0.08		11.4I		0.70

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 - 0.11		1.76C							66I		17	17
0.11 - 0.65		0.28C							50I		12	38
0.65 - 1.05		0.16C							50I		12	38
1.05 - 2		0.1C							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 - 0.11										
0.11 - 0.65										
0.65 - 1.05										
1.05 - 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