Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS1** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	McKane, Dermot	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	186 metres
Map Ref.:	Sheet No. : 8327 DGPS	**Rainfall:**	No Data
Northing/Long.:	6102840 AMG zone: 55	**Runoff:**	Rapid
Easting/Lat.:	545065 Datum: AGD66	**Drainage:**	No Data

Geology

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

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:**	135 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Paralithic Leptic Rudosol Non-gravelly Loamy Very shallow
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Brown (7.5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -
AC	0.05 - 0.33 m	Brown (7.5YR5/4-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
C	0.33 - 0.6 m	; Dry;

Morphological Notes

A1 Hydrophobic.

Observation Notes

Site Notes

B. CLARKE, SPRINGFIELD

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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 - 0.05	5.77A	0.386A	4.5J	1.5	1	0.06		8.8I		0.68
0.05 - 0.33	5.16A	0.053A	1.1J	0.36	0.13	0.02		3.5I		0.57
0.33 - 0.6	5.33A	0.036A	1.5J	0.51	0.08	0.05		3.7I		1.35

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 - 0.05		4.03C							82I		4	14
0.05 - 0.33		0.51C							60I		11	29
0.33 - 0.6		0.46C							60I		11	29

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 - 0.05										
0.05 - 0.33										
0.33 - 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