Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS27** **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.: 6102430 AMG zone: 55
Easting/Lat.: 548631 Datum: AGD66
Locality:
Elevation: 266 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

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: 270 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kurosol Thin 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:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.07 m	Strong brown (7.5YR4/6-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots;
A2	0.07 - 0.26 m	Brown (7.5YR5/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Field pH 5 (Raupach); Common, very fine (0-1mm) roots;
B21	0.26 - 0.55 m	Red (2.5YR4/8-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots;
C	0.55 - 0.8 m	Red (2.5YR4/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, coarse fragments; Field pH 4.5 (Raupach);

Morphological Notes

A1	Hydrophobic.
A2	Hydrophobic (not as bad as layer 1).

Observation Notes

Site Notes

A. WAKEHAM, NABILLA

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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	4.96A	0.124A	1.1J	0.53	1.3	0		5.6I		0.00
0.07 - 0.26	4.83A	0.1A	0.59J	0.39	0.64	0		3.3I		0.00
0.26 - 0.55	5.01A	0.094A	1.4J	3.6	1.2	0		9.8I		0.00
0.55 - 0.8	4.94A	0.117A	0.54J	4.6	0.74	0		8.8I		0.00

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		2.2C							66I		17	17
0.07 - 0.26		0.58C							73I		3	24
0.26 - 0.55		0.51C							44I		12	44
0.55 - 0.8		0.31C							44I		12	44

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 - 0.26										
0.26 - 0.55										
0.55 - 0.8										

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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