

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** LS34 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	216 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6100969 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	545098 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Quartz

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:	7 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached Mesotrophic Red Kurosol Thin Slightly gravelly Loamy Clayey Deep		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.07 m	Dark reddish brown (5YR3/2-Moist); ; Loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm)
A2	0.07 - 0.4 m	Brown (7.5YR4/4-Moist); Pink (7.5YR7/4-Dry); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots;
B21	0.4 - 0.65 m	Reddish yellow (5YR6/8-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; 50-90%, coarse fragments; 50-90%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots;
R	0.65 - 1.06 m	Rock

Morphological Notes

A1	Burnt, hydrophobic.
A2	1 8mm root.

Observation Notes

Site Notes

S. CLARKE, SAMARRA

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.07	4.85A	0.14A	2.7J	0.72	1.1	0.03		7.8I	0.38
0.07 - 0.4	4.66A	0.078A	0.84J	0.26	0.18	0.01		2.5I	0.40
0.4 - 0.65	4.52A	1.774A	1.4J	8.6	0.84	0.58		14.9I	3.89

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.07		3.98C							661		17	17
0.07 - 0.4		0.62C							731		3	24
0.4 - 0.65		0.37C							441		12	44

[illegible]

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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