

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** LS72 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	213 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6105929 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	545378 Datum: AGD66	Drainage:	No Data

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:	135 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Class Undetermined Yellow Dermosol Thin Non-gravelly Clay-loamy Clayey Very 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 - 0.08 m	Brown (7.5YR4/3-Moist); ; Coarse 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%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots;
A2	0.08 - 0.35 m	Brownish yellow (10YR6/6-Moist); Pinkish yellow (7.5YR8/2-Dry); ; Clay loam, sandy; 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; 10-20%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular tabular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferromanganiferous, , ; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots;
B21	0.35 - 0.73 m	Brownish yellow (10YR6/6-Moist); Mottles, 2-10% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Ferromanganiferous, , ; Field pH 6.5 (Raupach);
B22	0.73 - 0.95 m	Brownish yellow (10YR6/8-Moist); Mottles, 20-50% , Prominent; Light clay; Moderate grade of structure, 5-10 mm, Platy; Earthy fabric; Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach);
B3	0.95 - 2 m	Yellowish red (5YR5/8-Moist); ; Fine sandy clay; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach);

Morphological Notes

A1 Hydrophobic.

Observation Notes

Site Notes

J. MORE, BROOKSIDE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.08	4.92A	0.102A	1J	0.31	0.55	0		5.8l	0.00
0.08 - 0.35	5.26A	0.044A	1.3J	0.52	0.29	0.03		4.3l	0.70
0.35 - 0.73	6.4A	0.033A	3.7J	3.5	0.33	0.19		9.5l	2.00
0.73 - 0.95	7.01A	0.026A	3.2J	3.5	0.2	0.35		8.6l	4.07
0.95 - 2	7.82A	0.036A	3.3J	4.8	0.17	0.75		10l	7.50

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 - 0.08		1.68C							73I		3	24
0.08 - 0.35		0.43C							60I		11	29
0.35 - 0.73		0.18C							50I		12	38
0.73 - 0.95		0.1C							50I		12	38
0.95 - 2		0.08C							64I		1	35

[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