

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD23 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	242 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6123390 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	537450 Datum: AGD66	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	135 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Class Undetermined Brown Dermosol Medium 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: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.14 m	Dark brown (7.5YR3/4-Moist); ; Medium sandy clay loam; Massive grade of structure; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.14 - 0.73 m	Yellowish red (5YR4/8-Moist); ; Light clay; Massive grade of structure; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.73 - 1.05 m	Strong brown (7.5YR5/6-Moist); ; Clayey coarse sand; Massive grade of structure; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Fragments, weak, segregations;Field pH 6 (pH meter); Gradual, Smooth change to -
B22	1.05 - 1.3 m	Yellowish red (5YR5/8-Moist); Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, subangular, coarse fragments; Field pH 6 (pH meter); Gradual, Smooth change to -
B23	1.3 - 1.94 m	Yellowish red (5YR5/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light clay; Massive grade of structure; Firm consistence; Field pH 6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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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 - 0.14	5.31A	0.029A	1.6J	0.34	0.4	0.06		5l	1.20
0.14 - 0.73	5.3A	0.186A	3.5J	0.98	0.21	0.06		6.2l	0.97
0.73 - 1.05	5.68A	0.025A	2.1J	1.5	0.12	0.09		4.1l	2.20
1.05 - 1.3	5.99A	0.071A	3J	3.5	0.19	0.27		7.9l	3.42
1.3 - 1.94	6.48A	0.052A	4.2J	4.1	0.24	0.67		10l	6.70

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 - 0.14		0.97C							22.3l		9.9	67.8
0.14 - 0.73		0.29C							32.8l		7.6	59.6
0.73 - 1.05		0.12C							19.7l		6.9	73.4
1.05 - 1.3		0.13C							36.4l		9.7	53.9
1.3 - 1.94		0.07C							42.6l		14.4	43

[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