

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD43 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	263 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6124873 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	542164 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:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	3 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Brown Dermosol Thin Non-gravelly 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 - 0.09 m	Dark reddish brown (5YR3/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; Common, very fine (0-1mm) roots; Clear change to -
B1	0.09 - 0.42 m	Yellowish red (5YR4/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.42 - 0.65 m	; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B22	0.65 - 1.33 m	Yellowish brown (10YR5/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few (2 - 10 %), Manganiferous, , ; Clear change to -
B23	1.33 - 1.59 m	Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few (2 - 10 %), Manganiferous, , ;

Morphological Notes

B21 Moist Munsell should be 7.5YR 4/8

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.09	5.45A	0.06A	2.2J	0.55	1	0.11		10.3I		1.07
0.09 - 0.42	7.05A	0.027A	7.5J	1.3	0.93	0.1		10.9I		0.92
0.42 - 0.65	7.5A	0.035A	9.3J	2.5	0.53	0.14		13.1I		1.07
0.65 - 1.33	7.8A	0.05A	10.6J	5.2	1	0.13		18.3I		0.71
1.33 - 1.59	7.79A	0.038A	11.3J	6.9	1.2	0.18		19I		0.95

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 - 0.09		1.25C							36.4I		15.5 48.1
0.09 - 0.42		0.43C							49.4I		11.4 39.2
0.42 - 0.65		0.31C							58.6I		10.4 31
0.65 - 1.33		0.1C							61I		13 26
1.33 - 1.59		0.07C							59.7I		15.3 25

[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