Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **BD79** **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. : 8327 DGPS
Northing/Long.: 6126744 AMG zone: 55
Easting/Lat.: 538512 Datum: AGD66
Locality:
Elevation: 260 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: 3 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Red Dermosol Thin Slightly gravelly Loamy Clayey Very 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	Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
B1	0.07 - 0.7 m	Red (2.5YR4/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Diffuse change to -
B21	0.7 - 1.23 m	Yellowish red (5YR4/8-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Distinct; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
B22	1.23 - 2 m	Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , 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, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments;

Morphological Notes

A1 Cropped to the limit.

Observation Notes

Site Notes

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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	5.38A	0.066A	2.5J	0.7	0.86	0.09		7.2I		1.25
0.07 - 0.7	6.67A	0.023A	4J	2.8	0.35	0.03		10.8I		0.28
0.7 - 1.23	6.7A	0.022A	3.4J	3.7	0.33	0.16		10.4I		1.54
1.23 - 2	7.83A	0.04A	4.2J	4.5	0.74	0.46		11.7I		3.93

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		1.21C							36.7I		8.1	55.2
0.07 - 0.7		0.36C							46.1I		11.2	42.7
0.7 - 1.23		0.23C							51.6I		13.5	34.9
1.23 - 2		0.12C							57.1I		11.3	31.6

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 - 0.7										
0.7 - 1.23										
1.23 - 2										

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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