

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD68 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: McKane, Dermot	Locality:
Date Desc.: 15/07/93	Elevation: 200 metres
Map Ref.: Sheet No. : 8327 1:25000	Rainfall: No Data
Northing/Long.: 6119458 AMG zone: 55	Runoff: No Data
Easting/Lat.: 535014 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: 3 %	Aspect: 225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled Eutrophic Red Kurosol Medium 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 - 0.16 m	Dark brown (7.5YR3/4-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; 0-2%, subangular, dispersed, coarse fragments; Few, fine (1-2mm) roots; Few, very fine (0-1mm) roots;
B21	0.16 - 0.72 m	Red (2.5YR4/8-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated; Few, fine (1-2mm) roots; Few, very fine (0-1mm) roots;
B22	0.72 - 1.45 m	Brownish yellow (10YR6/8-Moist); Mottles, 20-50% , Distinct; Mottles, 10-20% , Prominent; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules, weak, segregations;
C	1.45 - 1.74 m	Reddish yellow (7.5YR6/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments;
C	1.74 - 1.94 m	Reddish yellow (7.5YR6/6-Moist); Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Veins, weak, segregations; Soil matrix is Slightly calcareous;
C	1.94 - 2 m	Reddish yellow (7.5YR7/6-Moist); ; Medium sandy light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;

Morphological Notes

A1	Could the A1 be an A2 with A1 lost?
B21	Lost.

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B22 Last 5cm almost 80% grey staining.

Observation 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 - 0.16	5.45A	0.066A	3.1J	0.72	0.79	0		6.6I	0.00
0.16 - 0.72	5.44A	0.085A	7.8J	5.6	1.1	0		17I	0.00
0.72 - 1.45	5.91A	0.157A	7.6J	8.8	1	0.02		20.3I	0.10
1.45 - 1.74	7.46A	0.054A	11.3J	11.1	1.1	0.17		22.8I	0.75
1.74 - 1.94	7.49A	0.065A	9.2J	9.2	0.73	0.17		19I	0.89
1.94 - 2	6.05A	0.255A	10.7J	10.6	0.78	0.07		19.6I	0.36

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 - 0.16		1.47C							22.6I		12.1	65.3
0.16 - 0.72		0.95C							68.9I		9.3	21.8
0.72 - 1.45		0.69C							67.2I		10.5	22.3
1.45 - 1.74		0.18C							64.9I		12	23.1
1.74 - 1.94		0.14C							47.3I		13.6	39.1
1.94 - 2		0.86C							48.4I		16.8	34.8

[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