

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD42 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

<b>Desc. By:</b>	McKane, Dermot	<b>Locality:</b>	
<b>Date Desc.:</b>	15/07/93	<b>Elevation:</b>	262 metres
<b>Map Ref.:</b>	Sheet No. : 8327 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6125390 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	536927 Datum: AGD66	<b>Drainage:</b>	No Data

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4 %	<b>Aspect:</b>	315 degrees

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Brown Dermosol Thin Non-gravelly Clay-loamy Clayey Very deep		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
A3	0.08 - 0.21 m	Dark reddish brown (2.5YR3/4-Moist); ; 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, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B1	0.21 - 0.52 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, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.52 - 0.84 m	Mottles, 0-2% , Faint; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed,
B22	0.84 - 1.62 m	Yellowish brown (10YR5/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light medium clay; Strong grade of structure, 10-20 mm, Platy; 50-100 mm, Lenticular; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments;

#### Morphological Notes

B1 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 - 0.08	5.28A	0.069A	2.8J	0.76	1.2	0.04		8.8I		0.45
0.08 - 0.21	5.91A	0.031A	4.6J	1.3	0.92	0.04		9.9I		0.40
0.21 - 0.52	6.71A	0.023A	5.5J	2.8	0.77	0.07		10.8I		0.65
0.52 - 0.84	6.99A	0.027A	4.7J	4.4	0.76	0.24		11.4I		2.11
0.84 - 1.62	8.27A	0.038A	7.2J	6.6	1.1	0.62		15.6I		3.97

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis
m	%	C	P	P	N	K	Density	GV	CS	Silt
		%	mg/kg	%	%	%	Mg/m3		FS	Clay
									%	
0 - 0.08		2.13C						39.3I		12.5
0.08 - 0.21		0.65C						47.1I		11.6
0.21 - 0.52		0.39C						55.6I		9.2
0.52 - 0.84		0.21C						60.3I		10.9
0.84 - 1.62		0.09C						62.1I		9.1

[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