

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD76 **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> 205 metres
<b>Map Ref.:</b> Sheet No. : 8327 1:25000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6120434 AMG zone: 55	<b>Runoff:</b> Slow
<b>Easting/Lat.:</b> 536546 Datum: AGD66	<b>Drainage:</b> Imperfectly drained

#### Geology

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

#### 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> 2 %	<b>Aspect:</b> 135 degrees

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Calcareous Calcarosolic Redoxic Hydrosol Thick 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

A11	0 - 0.13 m	Dark brown (7.5YR3/3-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Common, medium (2-5mm) roots; Common, fine (1-2mm) roots; Many, very fine (0-1mm) roots; Clear change to -
A12	0.13 - 0.48 m	Very dark brown (7.5YR2/2-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear change to -
B21	0.48 - 0.72 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 20-50% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules, weak, segregations;Common (10 - 20 %), Manganiferous, , ; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -
B22	0.72 - 1 m	Strong brown (7.5YR5/6-Moist); Mottles, 20-50% , Distinct; Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Root linings, weak, segregations;Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -
B23	1 - 1.43 m	Yellowish brown (10YR5/4-Moist); Mottles, 20-50% , Distinct; Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Fragments, strong, segregations;Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Fragments, strong, segregations;Clear change to -
B3	1.43 - 2 m	Yellowish brown (10YR5/4-Moist); Mottles, 20-50% , Distinct; Mottles, 10-20% , Distinct; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Fragments, strong,

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**Observation Notes**

**Site Notes**

**Morphological 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 - 0.13	6.05A	0.116A	8.5J	1.8	1.7	0.03		12.8I	0.23
0.13 - 0.48	6.32A	0.097A	10.1J	2.4	0.93	0.05		14I	0.36
0.48 - 0.72	7.75A	0.834A	19.2J	3	1.6	0.07		15.5I	0.45
0.72 - 1	8.12A	0.54A	21.4J	2.6	1	0.03		9.8I	0.31
1 - 1.43	8.21A	0.976A	26J	10.5	1.2	0.34		13.5I	2.52
1.43 - 2	8.17A	0.431A	18.7J	3.8	0.9	0.1		11.5I	0.87

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 - 0.13		2.29C							32.5I		20.6	46.9
0.13 - 0.48		0.8C							36.1I		17.8	46.1
0.48 - 0.72		0.33C							48.1I		12.9	39
0.72 - 1		1.04C							34.7I		16.3	49
1 - 1.43		1.96C							53.5I		18.8	27.7
1.43 - 2		0.58C							34.4I		13.8	51.8

[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