

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** LS35 **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>	248 metres
<b>Map Ref.:</b>	Sheet No. : 8427 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6102732 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	547578 Datum: AGD66	<b>Drainage:</b>	Moderately well 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>	Quartz

**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>	8 %	<b>Aspect:</b>	90 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Mesotrophic Brown Kandosol Medium Non-gravelly 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 - 0.12 m	Yellowish red (5YR3/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular tabular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B1	0.12 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular tabular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular tabular, dispersed, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
B21	0.3 - 0.66 m	Dark yellowish brown (10YR3/6-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, dispersed, coarse fragments; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots;
B22	0.66 - 1.1 m	Strong brown (7.5YR5/8-Moist); Mottles, 10-20% , Distinct; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular tabular, dispersed, coarse fragments; Field pH 7 (Raupach);
R	1.1 - 2 m	Rock

**Morphological Notes**

**Observation Notes**

**Site Notes**

B. MILLER, CASEBROOK

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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 - 0.12	5.39A	0.089A	1.9J	0.46	0.85	0.09		5.8I		1.55
0.12 - 0.3	5.96A	0.052A	2.6J	0.66	0.45	0.05		5.2I		0.96
0.3 - 0.66	6.52A	0.026A	4.6J	2.3	0.38	0.08		9.1I		0.88
0.66 - 1.1	7.37A	0.022A	3.1J	3.6	0.21	0.04		8I		0.50

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 - 0.12		1.67C							56I		15	29
0.12 - 0.3		0.56C							50I		12	38
0.3 - 0.66		0.22C							44I		12	44
0.66 - 1.1		0.1C							44I		12	44

[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