

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** LS55 **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>	221 metres
<b>Map Ref.:</b>	Sheet No. : 8427 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6103892 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	547919 Datum: AGD66	<b>Drainage:</b>	Poorly 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>	7 %	<b>Aspect:</b>	315 degrees

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Mottled Class Undetermined Yellow Dermosol Thin Slightly 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 - 0.09 m	Reddish brown (5YR4/4-Moist); ; Medium sandy 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, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 7 (Raupach);
A2	0.09 - 0.32 m	Yellowish red (5YR4/6-Moist); Pink (7.5YR7/4-Dry); ; Medium sandy 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, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Siltstone, coarse fragments; Field pH 6.5 (Raupach);
B1	0.32 - 0.61 m	Strong brown (7.5YR5/8-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, Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 7 (Raupach);
B21	0.61 - 1.17 m	Brownish yellow (10YR6/6-Moist); Substrate influence, 5YR67, 10-20% , Distinct; Light clay; Moderate grade of structure, <2 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; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Veins, weak, segregations;Field pH 7 (Raupach);
B22	1.17 - 1.75 m	Brownish yellow (10YR6/8-Moist); Substrate influence, 10-20% , Distinct; Substrate influence, 10-20% , Distinct; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 7 (Raupach);
R	1.75 - 2 m	Rock

#### Morphological Notes

A1	Hydrophobic.
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#### Observation Notes

#### Site Notes

R.MILLAR, CASEBROOK

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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 - 0.09	5.54A	0.049A	1.8J	0.52	0.98	0.04		6I	0.67
0.09 - 0.32	5.74A	0.042A	1.3J	0.36	0.48	0.02		4.2I	0.48
0.32 - 0.61	7.1A	0.02A	4.1J	1.8	0.74	0.04		7.6I	0.53
0.61 - 1.17	6.84A	0.033A	3.3J	2.9	0.22	0.07		7.9I	0.89
1.17 - 1.75	7.1A	0.032A	7.2J	9.2	0.6	0.26		18.3I	1.42

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 - 0.09		1.92C							56I		15	29
0.09 - 0.32		0.46C							56I		15	29
0.32 - 0.61		0.13C							50I		12	38
0.61 - 1.17		0.12C							50I		12	38
1.17 - 1.75		0.05C							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