

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** LS54 **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>	223 metres
<b>Map Ref.:</b>	Sheet No. : 8427 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6104840 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	548218 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>	Siltstone

**Land Form**

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

**Surface Soil Condition (dry):** Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Class Undetermined Red Chromosol 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:** Extensive clearing, for example poisoning, ringbarking

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.08 m	Dark brown (7.5YR3/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots;
A2	0.08 - 0.2 m	Strong brown (7.5YR5/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots;
B21	0.2 - 0.55 m	Red (2.5YR5/8-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 6.5 (Raupach);
B22	0.55 - 2 m	Brownish yellow (10YR6/6-Moist); Mottles; Light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Field pH 7 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

T. CARLISLE, TYWONG

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM      **Site ID:** LS54      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**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 - 0.08	5.67A	0.061A	1.6J	0.34	0.91	0.11		4.5I	2.44
0.08 - 0.2	5.14A	0.061A	0.53J	0.14	0.47	0		3.2I	0.00
0.2 - 0.55	5.98A	0.034A	4.8J	2.8	0.94	0.03		10.4I	0.29
0.55 - 2	7.77A	0.026A	5.4J	6.5	0.65	0.51		15.5I	3.29

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 - 0.08		2.61C							66I		17	17
0.08 - 0.2		0.38C							82I		4	14
0.2 - 0.55		0.2C							50I		12	38
0.55 - 2		0.08C							50I		12	38

[illegible]

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM    **Site ID:** LS54    **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**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