

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** LS77 **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>	203 metres
<b>Map Ref.:</b>	Sheet No. : 8427 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6105813 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	546959 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>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	225 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Mottled Class Undetermined Brown Dermosol		<b>Principal Profile Form:</b>	N/A
Medium Non-gravelly Clay-loamy Clayey Very deep			

<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.11 m	Brown (7.5YR5/3-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 6.5 (Raupach);
A2	0.11 - 0.33 m	Light brown (7.5YR6/4-Moist); White (10YR8/2-Dry); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 6.5 (Raupach);
B1	0.33 - 0.57 m	Yellowish brown (10YR5/6-Moist); Mottles, 10-20% , Faint; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Many (20 - 50 %), Ferromanganiferous, , ; Field pH 7 (Raupach);
B21	0.57 - 1.58 m	Yellowish brown (10YR5/6-Moist); Mottles, 20-50% , Faint; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 8 (Raupach);
B22	1.58 - 2 m	Yellowish brown (10YR5/8-Moist); Mottles, 10-20% , Faint; Mottles, 10-20% , Faint; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 8 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

A. WAKEHAM, NABILLA

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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 - 0.11	5.64A	0.157A	3.6J	1	0.5	0.13		7.4I	1.76
0.11 - 0.33	5.86A	0.159A	1.9J	0.69	0.33	0.08		3.4I	2.35
0.33 - 0.57	6.77A	0.164A	7.3J	2.3	1.2	0.11		10.7I	1.03
0.57 - 1.58	8.02A	0.053A	5.9J	4.6	1.2	0.2		10.8I	1.85
1.58 - 2	8.24A	0.057A	7J	6.5	1.3	0.57		14.3I	3.99

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 - 0.11		2.51C							73I		3	24
0.11 - 0.33		0.42C							73I		3	24
0.33 - 0.57		0.51C							50I		12	38
0.57 - 1.58		0.1C							50I		12	38
1.58 - 2		0.08C							50I		12	38

[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