

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD17 **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>	207 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6119410 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	534330 Datum: AGD66	<b>Drainage:</b>	No Data

**Geology**

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

**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>	5 %	<b>Aspect:</b>	135 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Red Dermosol 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 - 0.17 m	Dark brown (7.5YR3/4-Moist); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -
B1	0.17 - 0.63 m	Red (2.5YR4/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
B21	0.63 - 0.85 m	Strong brown (7.5YR5/6-Moist); Mottles, 0-2% , Faint; Light clay; Weak grade of structure, <2 mm, Subangular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Clear change to -
B22	0.85 - 1.45 m	Yellowish brown (10YR5/6-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Distinct; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Fragments, weak, segregations; Clear change to -
B23	1.45 - 2 m	Yellowish brown (10YR5/8-Moist); Mottles, 10-20% , Distinct; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct;

**Morphological Notes**

**Observation Notes**

**Site Notes**

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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 - 0.17	6.08A	0.048A	2.7J	2.6	0.64	0.2		5.5I		3.64
0.17 - 0.63	6.99A	0.022A	4.2J	2	0.86	0.15		8.6I		1.74
0.63 - 0.85	7.5A	0.038A	5.8J	5.6	0.68	0.32		13.3I		2.41
0.85 - 1.45	6.79A	0.078A	10.4J	12	1.1	1.5		23.5I		6.38
1.45 - 2	8.75A	0.131A	9.6J	12.4	1	2.9		23.1I		12.55

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.17		0.95C							27.4I		13.4	59.2
0.17 - 0.63		0.27C							51.1I		9.8	39.1
0.63 - 0.85		0.25C							63.7I		9.7	26.6
0.85 - 1.45		0.14C							75.2I		6.7	18.1
1.45 - 2		0.07C							71.6I		8.6	19.8

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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