Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS53** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	McKane, Dermot	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	267 metres
Map Ref.:	Sheet No. : 8327 DGPS	**Rainfall:**	No Data
Northing/Long.:	6104314 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	542859 Datum: AGD66	**Drainage:**	Poorly drained

Geology

ExposureType:	Undisturbed soil core	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	7 %	**Aspect:**	315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Class Undetermined Brown Chromosol
Thick Non-gravelly Loamy Clayey Very deep

Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
Confidence level not specified

Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.17 m	Brown (7.5YR4/4-Moist); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm)
A2	0.17 - 0.46 m	Reddish yellow (7.5YR6/6-Moist); Reddish yellow (7.5YR8/6-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Field pH 6 (Raupach);
B	0.46 - 1.16 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded tabular, dispersed, Siltstone, coarse fragments; Field pH 7 (Raupach);
BC	1.16 - 1.68 m	Pale brown (10YR6/3-Moist); Mottles, 20-50% , Prominent; Light clay; Massive grade of structure; Very firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded tabular, dispersed, Siltstone, coarse fragments; Field pH 7 (Raupach);
R	1.68 - 1.76 m	Rock

Morphological Notes

Observation Notes

Site Notes

J. DUMARESQ, MONA VALE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.17	5.68A	0.029A	1.1J	0.31	0.58	0.05		4I		1.25
0.17 - 0.46	6.37A	0.014A	1.3J	0.26	0.22	0.02		3.1I		0.65
0.46 - 1.16	7.37A	0.027A	3.8J	2.2	0.3	0.03		7.5I		0.40
1.16 - 1.68	7.34A	0.029A	2.8J	3.2	0.33	0.04		6.5I		0.62

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.17		0.82C							82I		4	14
0.17 - 0.46		0.18C							82I		4	14
0.46 - 1.16		0.14C							44I		12	44
1.16 - 1.68		0.09C							50I		12	38

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.17										
0.17 - 0.46										
0.46 - 1.16										
1.16 - 1.68										

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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