

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD18 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	233 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6125670 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	535230 Datum: AGD66	Drainage:	No Data

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:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Red Kandosol Thin Non-gravelly Loamy Clayey Deep		Principal Profile Form:	N/A

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

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.09 m	Yellowish red (5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.09 - 0.45 m	Yellowish red (5YR5/8-Moist); ; Mottles; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Fragments, weak, segregations;Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.45 - 1.15 m	Yellowish brown (10YR5/6-Moist); Mottles, 2-10% , Faint; Mottles, 0-2% , Faint; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	1.15 - 1.3 m	Red (2.5YR4/6-Moist); Mottles, 2-10% , Distinct; Light medium clay; Weak grade of structure; Dry; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 7 (pH meter);

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 - 0.09	5.84A	0.047A	3.1J	0.84	0.81	0.04		7.6I		0.53
0.09 - 0.45	6.95A	0.024A	4.8J	1.5	0.63	0.06		9.1I		0.66
0.45 - 1.15	7.8A	0.063A	5.7J	4.3	0.87	0.18		10.2I		1.76
1.15 - 1.3	8.22A	0.061A	8J	7.7	1.2	0.48		19I		2.53

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis
m	%	C	P	P	N	K	Density	GV	CS	Silt
		%	mg/kg	%	%	%	Mg/m3		FS	Clay
									%	
0 - 0.09		1.18C						30.8I		13.5
0.09 - 0.45		0.26C						40.9I		10.4
0.45 - 1.15		0.23C						50.1I		11.7
1.15 - 1.3		0.12C						47I		13.9

[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