

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD53 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	215 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6125510 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	534270 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

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:	2 %	Aspect:	315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Brown Chromosol Medium Non-gravelly Loamy Clayey Very deep		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
B1	0.15 - 0.58 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.58 - 0.84 m	Yellowish brown (10YR5/6-Moist); Mottles, 0-2% , Faint; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, 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, faint; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Fragments, weak, segregations; Clear change to -
B22	0.84 - 1.51 m	Brownish yellow (10YR6/8-Moist); Mottles, 0-2% , Faint; Light medium clay; Strong grade of structure, 10-20 mm, Platy; 50-100 mm, Lenticular; Smooth-ped fabric; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Veins, weak, segregations; Gradual change to -
B23	1.51 - 1.85 m	Pale yellow (2.5Y7/3-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Distinct; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Fragments, weak, segregations; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Fragments, weak, segregations;

Morphological Notes

Observation Notes

Site Notes

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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 - 0.15	5.35A	0.05A	2.8J	0.83	1.1	0.01		7.8I	0.13
0.15 - 0.58	6.43A	0.025A	4J	2.7	0.72	0.11		9.4I	1.17
0.58 - 0.84	7.08A	0.041A	5.6J	6.8	1.1	0.66		17.9I	3.69
0.84 - 1.51	7.6A	0.105A	6.4J	8.9	1.4	1.1		17.7I	6.21
1.51 - 1.85	8.72A	0.148A	12.8J	12.6	1.6	2.2		25.5I	8.63

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 - 0.15		1.36C						26.3I		14
0.15 - 0.58		0.37C						46.9I		10.6
0.58 - 0.84		0.18C						65.4I		13.9
0.84 - 1.51		0.32C						60.4I		14.8
1.51 - 1.85		0.1C						57.1I		21.7

[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