

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM201 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	B. Murphy	Locality:	
Date Desc.:	12/03/92	Elevation:	215 metres
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	No Data
Northing/Long.:	6085400 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	505900 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	No Data	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	1 %	Aspect:	270 degrees

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn4.55
		Great Soil Group:	Xanthozem

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.11 m	Brown (7.5YR5/3-Moist); Pinkish grey (7.5YR7/2-Dry); ; Fine sandy clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Columnar; Earthy fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Firm consistence; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Many, very fine (0-1mm) roots;
A21	0.11 - 0.25 m	Pinkish grey (7.5YR6/3-Moist); Pinkish grey (7.5YR7/3-Dry); ; Silty clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Strong consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots;
A22	0.25 - 0.35 m	Light brown (7.5YR6/4-Moist); Pinkish grey (7.5YR7/3-Dry); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Columnar; Rough-ped fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots;
B21	0.35 - 0.55 m	Brown (7.5YR5/4-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots;
B22	0.55 - 0.8 m	Brown (7.5YR5/4-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; 20-50 mm, Columnar; Rough-ped fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots;
B23	0.8 - 1 m	Light brown (7.5YR6/4-Moist); ; Light clay; 20-50 mm, Angular blocky; 20-50 mm, Columnar; Rough-ped fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Root linings, weak, segregations;Field pH 7 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

FRASER TRANSECT A

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na				%
						Cmol (+)/kg				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

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

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Laboratory Analyses Completed for this profile