Project Name: **SOIL STRUCTURE & MANAGEMENT**
Project Code: **SSM** **Site ID:** **SSM202** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

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

Geology

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

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy2.22
Great Soil Group: Red earth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.12 m	Brown (7.5YR5/4-Moist); ; Loam; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; Slightly plastic; Normal plasticity; Non-sticky; Field pH 5 (Raupach); Common, very fine (0-1mm) roots;
A2	0.12 - 0.28 m	Reddish yellow (7.5YR6/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Slightly plastic; Normal plasticity; Non-sticky; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots;
B21	0.28 - 0.38 m	Yellowish red (5YR5/8-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 50-100 mm; Smooth-ped fabric; Dry; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots;
B21	0.38 - 0.58 m	Yellowish red (5YR5/8-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 50-100 mm; Smooth-ped fabric; Dry; Weak consistence; Moderately plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B22	0.58 - 0.78 m	Red (2.5YR5/6-Moist); Substrate influence, 5YR64, 20-50% , Faint; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 50-100 mm; Smooth-ped fabric; Dry; Very firm consistence; Moderately plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B23	0.78 - 1 m	Yellowish red (5YR5/6-Moist); Substrate influence, 5YR64, 20-50% , Faint; Medium clay; Strong grade of structure, 50-100 mm, Subangular blocky; 50-100 mm; Smooth-ped fabric; Dry; Very firm consistence; Moderately plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, faint; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Veins; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A1 Sand fraction is fine.

Observation Notes

Site Notes

FRASER TRANSECT B

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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							%

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			%		

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