

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM221 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	B. Murphy	Locality:	
Date Desc.:	25/03/92	Elevation:	270 metres
Map Ref.:	Sheet No. : 8430 1:50000	Rainfall:	No Data
Northing/Long.:	6249700 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	581800 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	QrOs	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	2 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Not apparent (wind); No scalding (scald) Partial,
Minor (sheet) No wave erosion (wave) No rill
erosion (rill) No mass movement (mass) No gully
erosion (gully) No stream bank erosion (stbank)
No tunnel erosion (tunnel)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.13
		Great Soil Group:	Red-brown earth

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, subrounded,

Profile Morphology

A11	0 - 0.1 m	Yellowish red (5YR4/6-Moist); ; Fine sandy loam; Weak grade of structure; Earthy fabric; Dry; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (Raupach);
A12	0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); ; Loam; Weak grade of structure; Earthy fabric; Dry; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (Raupach);
B21	0.2 - 0.3 m	Yellowish red (5YR4/8-Moist); ; Light clay; Strong grade of structure; Smooth-ped fabric; Dry; Moderately plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 7 (Raupach);
B21	0.3 - 0.4 m	Yellowish red (5YR4/8-Moist); ; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Moderately plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 8 (Raupach);
B22	0.4 - 0.5 m	Yellowish red (5YR5/8-Moist); ; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Moderately plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 8.5 (Raupach);
B22	0.5 - 0.7 m	Yellowish red (5YR5/8-Moist); ; Strong grade of structure; Smooth-ped fabric; Dry; Moderately plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);
B23	0.7 - 0.8 m	Yellowish red (5YR5/8-Moist); ; Light clay; Strong grade of structure; Smooth-ped fabric; Dry; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);
B31	0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); Substrate influence, 2-10% , Faint; Light clay; Strong grade of structure; Smooth-ped fabric; Dry; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

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A12

Sand fraction is fine.

Observation Notes

Site Notes

PHILLIP'S TRANSECT C

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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