

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM218 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	B. Murphy	Locality:	
Date Desc.:	13/03/92	Elevation:	220 metres
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	No Data
Northing/Long.:	6086600 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	506700 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:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	1 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy2.43
		Great Soil Group:	Yellow earth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.02 m	Brown (7.5YR4/3-Moist); Pinkish grey (7.5YR7/3-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Field pH 4.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -
A12	0.02 - 0.11 m	Brown (7.5YR4/3-Moist); Pinkish grey (7.5YR6/3-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
A21	0.11 - 0.27 m	Reddish brown (5YR5/4-Moist); Pinkish white (7.5YR8/3-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
A22	0.27 - 0.42 m	Reddish brown (5YR5/4-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; 20-50 mm, Columnar; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
B21	0.42 - 0.64 m	Reddish brown (5YR5/4-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; 20-50 mm, Columnar; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Veins; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm)
B22	0.64 - 0.8 m	Light yellowish brown (10YR6/4-Moist); Substrate influence, 20-50% , Prominent; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; 20-50 mm, Columnar; Smooth-ped fabric; Dry; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 8 (Raupach); Clear change to -

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B23 0.8 - 0.9 m Light yellowish brown (10YR6/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 20-50 mm, Columnar; Smooth-ped fabric; Dry; Weak consistence; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Veins, weak, segregations;Field pH 8 (Raupach);

Morphological Notes

Observation Notes

Site Notes

YATE'S TRANSECT F

Laboratory Test Results:

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 - m ³ /m ³							mm/h	mm/h
0.0										
0.1										
0.2										
0.3										
0.4										
0.5										
0.6										
0.7										
0.8										
0.9										
1.0										
1.1										
1.2										
1.3										
1.4										
1.5										
1.6										
1.7										
1.8										
1.9										
2.0										
2.1										
2.2										
2.3										
2.4										
2.5										
2.6										
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2.8										
2.9										
3.0										
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Laboratory Analyses Completed for this profile