Proje	ct Code: S	COIL STRUCTURE & MANA SM Site ID: CSIRO Division of Soils (Ad	SSM214 O	bservation ID	: 1				
Site Information									
Desc. Date D Map R Northi	By:   B. I     pesc.:   12/     ef.:   Sho     ng/Long.:   608     g/Lat.:   506	Murphy 03/92 eet No. : 8327 1:100000 36600 AMG zone: 55 5700 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	220 metres No Data Slow Moderately we	drained				
Expos Geol. I	ureType: Un Ref.: No	disturbed soil core Data	Conf. Sub. is Pare Substrate Materia		oable onsolidated material (unidentified)				
Rel/Sle Morph Elem. Slope: <u>Surfa</u>	Land Form   Rel/Slope Class: No Data   Morph. Type: Lower-slope   Elem. Type: Footslope   Slope: 1 %   Surface Soil Condition (dry): Ha   Erosion: Ha		Pattern Type: Relief: Slope Category: Aspect:	Low hills No Data No Data 180 degrees					
Soil C	lassification								
Austra N/A ASC (	Ilian Soil Class		Mappi Princi Great	N/A n: Dy2.43 Yellow earth					
Site D	isturbance:	Extensive clearing, for example	poisoning, ringbarki	ng					
Veget	ation:								
Surfa	ce Coarse Fra	agments:							
Profile	e Morphology	<u>/</u>							
A11	0 - 0.02 m	Brown (7.5YR5/3-Moist); Pi structure; Few (<1 per 100r Fine (1-2mm) macropores,	Brown (7.5YR5/3-Moist); Pinkish grey (7.5YR6/3-Dry); ; Fine sandy loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -						
A21	0.02 - 0.13 m	(<1 per 100mm2) Very fine macropores, Few (<1 per 1	Brown (7.5YR4/4-Moist); Pinkish grey (7.5YR7/3-Dry); ; Loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -						
A22	0.13 - 0.3 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -							
B1	0.3 - 0.41 m	Brown (7.5YR5/4-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; 20-50 mm, Columnar; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -							
B21	0.41 - 0.55 m	Pink (7.5YR7/4-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; 20- 50 mm, Columnar; 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; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -							
B22	0.55 - 0.75 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; Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 8 (Raupach); Few, fine (1-2mm) roots; Gradual change to -							

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B23 0 - 0.9 m Light yellowish brown (10YR6/4-Moist); Substrate influence, 2-10%, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; 20-50 mm; Dry; Weak consistence; Few (2 - 10%), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 8 (Raupach);

## Morphological Notes

### **Observation Notes**

Upper 30cm of core breaks into dense plates 6cm thick. Layers may have sporadic bleach.

#### Site Notes

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Agency Name:	CSIRO Division	of Soils (A	CT)				

## Laboratory Test Results:

рН	1:5 EC dS/m			Cations K	Na	xchangeable Acidity ⁄kg	CEC		ECEC	SESP
CaCO3	Organic	Avail.	Total	Total N	Total	Bulk				Analysis Silt Clay
%	%	mg/kg	%	%	%	Mg/m3		00	%	one only
		Crowin	notrio///o	lumatria M	lator Cont	onto		Ka	~*	K unsat
COLE	Sat.		0.1 Bar	0.5 Bar	1 Bar		Bar			mm/h
		dS/m CaCO3 Organic C % %	Ca M dS/m CaCO3 Organic Avail. C P % % mg/kg COLE Gravin	Ca Mg dS/m CaCO3 Organic Avail. Total C P P % % mg/kg % COLE Gravimetric/Vo Sat. 0.05 Bar 0.1 Bar	Ca Mg K dS/m CaCO3 Organic Avail. Total Total C P P N % % mg/kg % % COLE Gravimetric/Volumetric W Sat. 0.05 Bar 0.1 Bar 0.5 Bar	Ca Mg K Na dS/m Cmol (+) CaCO3 Organic Avail. Total Total Total C P P N K % % mg/kg % % %	Ca Mg K Na Acidity dS/m Cmol (+)/kg CaCO3 Organic Avail. Total Total Total Bulk C P P N K Density % % mg/kg % % Mg/m3 COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15	Ca Mg K Na Acidity dS/m Cmol (+)/kg CaCO3 Organic Avail. Total Total Total Bulk Pa C P P N K Density GV % % mg/kg % % Mg/m3 COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity dS/m Cmol (+)/kg CaCO3 Organic Avail. Total Total Total Bulk Particle C P P N K Density GV CS % % mg/kg % % Mg/m3 COLE Gravimetric/Volumetric Water Contents K s Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity   dS/m Cmol (+)/kg   CaCO3 Organic Avail. Total Total Bulk Particle Size   C P P N K Density GV CS FS   % % % % Mg/m3 %   COLE Gravimetric/Volumetric Water Contents K sat   Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar

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Observation ID: 1

Laboratory Analyses Completed for this profile