

**Project Name:** SOIL STRUCTURE & MANAGEMENT  
**Project Code:** SSM **Site ID:** SSM220 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

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

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	QR0s	<b>Substrate Material:</b>	No Data

#### Land Form

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

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

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

#### Vegetation:

**Surface Coarse Fragments:** 2-10%, fine gravelly, 2-6mm, subrounded,

#### Profile Morphology

A11	0 - 0.1 m	Reddish brown (2.5YR4/3-Moist); ; Fine sandy clay loam; Weak grade of structure; Dry; Non-plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (Raupach);
B21	0.1 - 0.2 m	Reddish brown (2.5YR4/4-Moist); ; Silty clay; Strong grade of structure; Dry; Slightly plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 8 (Raupach);
B21	0.2 - 0.3 m	Reddish brown (2.5YR4/4-Moist); ; Silty clay; Strong grade of structure; Dry; Slightly plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 9 (Raupach);
B22	0.3 - 0.4 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure; Dry; Slightly plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 9 (Raupach);
B22	0.4 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure; Dry; Slightly plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 9 (Raupach);
B22	0.6 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure; Dry; Slightly plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 9
B23	0.7 - 0.8 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure; Dry; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, subrounded, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 9 (Raupach);
B23	0.8 - 0.9 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure; Dry; Moderately plastic; Normal plasticity; Moderately sticky; 2-10%, subrounded, coarse fragments; 2-10%, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 9 (Raupach);

#### Morphological Notes

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**Site Notes**

PHILLIP'S TRANSECT B

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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