

**Project Name:** SOIL STRUCTURE & MANAGEMENT  
**Project Code:** SSM **Site ID:** SSM208 **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>	08/04/92	<b>Elevation:</b>	260 metres
<b>Map Ref.:</b>	Sheet No. : 8328 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6128700 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	541800 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Gn2.12
		<b>Great Soil Group:</b>	Red earth

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.1 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); Substrate influence, 2.5YR58, 2-10% , Distinct; Silty clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Dry; Very weak consistence; Field pH 5.5 (Raupach);
B21	0.1 - 0.2 m	Yellowish red (5YR4/8-Moist); Yellowish red (5YR5/8-Dry); Substrate influence, 2.5YR48, 20-50% , Distinct; Silty clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Dry; Very weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6 (Raupach);
B22	0.2 - 0.4 m	Yellowish red (5YR5/8-Moist); Yellowish red (5YR5/8-Dry); Mottles, 5YR54, 10-20% , Distinct; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Columnar; Dry; Very weak consistence; Field pH 6 (Raupach);
B22	0.4 - 0.5 m	Yellowish red (5YR5/8-Moist); Reddish yellow (5YR6/8-Dry); Mottles, 5YR54, 2-10% , Distinct; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach);
B31	0.5 - 0.6 m	Yellowish red (5YR5/8-Moist); , 2.5YR58; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Firm consistence; Field pH 6.5 (Raupach);
B32	0.6 - 0.7 m	Yellowish red (5YR5/8-Moist); Substrate influence, 2.5YR58, 2-10% , Distinct; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules, weak, segregations;Field pH 6.5 (Raupach);
B33	0.7 - 0.8 m	Reddish yellow (7.5YR6/8-Moist); Substrate influence, 2.5YR58, 2-10% , Distinct; Substrate influence, 2.5YR36, 0-2% , Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; 50-100 mm, Prismatic; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6.5 (Raupach);
B33	0.8 - 0.9 m	Reddish yellow (7.5YR6/8-Moist); Substrate influence, 2.5YR58, 2-10% , Distinct; Substrate influence, 2.5YR36, 2-10% , Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; 50-100 mm, Prismatic; Dry; Very weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6 (Raupach);

#### Morphological Notes

B21 Second subdominant mottle colour block <2% manganiferous.

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**Observation Notes**

Gombalin parna.

**Site Notes**

BAKER'S TRANSECT B

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						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		
m		g/g - m3/m3						mm/h	mm/h

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Laboratory Analyses Completed for this profile