

**Project Name:** SOIL STRUCTURE & MANAGEMENT  
**Project Code:** SSM **Site ID:** SSM223 **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>	QrOs	<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>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Dr2.13
		<b>Great Soil Group:</b>	Red-brown earth

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

**Profile Morphology**

A11	0 - 0.1 m	Reddish brown (5YR4/4-Moist); ; Loam; Weak grade of structure; Earthy fabric; Dry; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach);
A12	0.1 - 0.2 m	Yellowish red (5YR3/6-Moist); ; Fine sandy clay loam; Weak grade of structure; Earthy fabric; Dry; Very weak consistence; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach);
B21	0.2 - 0.4 m	Yellowish red (5YR3/6-Moist); ; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Veins, weak, segregations;Field pH 7 (Raupach);
B22	0.4 - 0.5 m	Yellowish red (5YR4/8-Moist); ; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Veins, weak, segregations;Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);
B22	0.5 - 0.7 m	Yellowish red (5YR4/8-Moist); ; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Veins, weak, segregations;Soil matrix is Slightly calcareous; Field pH 9 (Raupach);
B23	0.7 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Light medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; Slightly plastic; Normal plasticity; Slightly sticky; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Veins, weak, segregations;Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations, weak, segregations;Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

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**Morphological Notes**

A11 Sand fraction is fine.

**Observation Notes**

**Site Notes**

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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	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

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