

Project Name: Bradshaw
Project Code: BRD **Site ID:** 26 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:		Locality:	
Date Desc.:	02/09/93	Elevation:	No Data
Map Ref.:	Sheet No. : 4967 1:100000	Rainfall:	No Data
Northing/Long.:	8295397 AMG zone: 52	Runoff:	Very slow
Easting/Lat.:	653292 Datum: AGD66	Drainage:	Poorly drained

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czs	Substrate Material:	Auger boring, 0.6 m deep, Slightly porous, Colluvium

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0.5 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking, Hardsetting, Cryptogam surface

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	52
Endocalcareous-Endohypersodic Massive Brown Vertosol		Principal Profile Form:	N/A
Slightly gravelly Fine Medium fine Deep			

ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: 50-90%, cobbly, 60-200mm, subangular, Limestone

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); , 7.5YR58, 2-10% , 5-15mm, Faint; Light clay; Massive grade of structure; Earthy fabric; Medium, (5 - 10) mm crack; Dry; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 6
B1	0.1 - 0.3 m	Brown (7.5YR4/4-Moist); , 7.5YR58, 0-2% , 0-5mm, Faint; Light clay; Massive grade of structure; Earthy fabric; Medium, (5 - 10) mm crack; Dry; Soil matrix is Slightly calcareous; Field pH 6 (Raupach);
B12	0.3 - 0.6 m	Brown (10YR4/3-Moist); , 7.5YR58, 20-50% , 5-15mm, Prominent; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Dry; 50-90%, cobbly, 60-200mm, subangular, dispersed, Limestone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Extremely coarse (> 60 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 6 (Raupach);
BC	0.6 - 1 m	Brown (10YR4/3-Moist); , 7.5YR58, 0-2% , 5-15mm, Faint; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; 50-90%, cobbly, 60-200mm, subangular, dispersed, Limestone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Extremely coarse (> 60 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 6 (Raupach);
C	1 - 1.4 m	Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; 0-2%, cobbly, 60-200mm, subangular, dispersed, Limestone, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Deep brown mottled cracking clay, stopped at 140 cm by calcrete

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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