

**Project Name:** Bradshaw  
**Project Code:** BRD      **Site ID:** 27      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>		<b>Locality:</b>	
<b>Date Desc.:</b>	02/09/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 4967 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	8295445 AMG zone: 52	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	648512 Datum: AGD66	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Czs	<b>Substrate Material:</b>	Auger boring, 0.3 m deep, Slightly porous, Colluvium

**Land Form**

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

**Surface Soil Condition (dry):** Cracking, Self-mulching, Firm

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	51
Haplic Self-Mulching Grey Vertosol Non-gravelly Fine Medium fine Deep	<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Grey clay
No analytical data are available but confidence is fair.		

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

**Vegetation:**

Tall Strata - Tree, 3.01-6m, Sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.03 m	Weak red (2.5YR4/2-Moist); , 0-0% ; Light clay; Strong grade of structure, <2 mm, Polyhedral; Rough-ped fabric; Medium, (5 - 10) mm crack; Dry; Field pH 6 (Raupach);
B21	0.03 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach);
B22	0.1 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Dry; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach);

**Morphological Notes**

**Observation Notes**

Deep (?) Grey self mulching cracking clay

**Site Notes**

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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