

**Project Name:** Bradshaw  
**Project Code:** BRD                      **Site ID:** 12                      **Observation ID:** 1  
**Agency Name:** Conservation Commission of the Northern Territory

**Site Information**

<b>Desc. By:</b>		<b>Locality:</b>	
<b>Date Desc.:</b>	07/08/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 4966    1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	8285020 AMG zone: 52	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	649154    Datum: AGD66	<b>Drainage:</b>	Poorly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qt	<b>Substrate Material:</b>	Auger boring, 0.9 m deep, Slightly porous, Clay

**Land Form**

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

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	55
Episodic-Endocalcareous Self-Mulching Black Vertosol Non-gravelly Fine Very 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:**                      Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Sorghum timorense, Chrysopogon fallax  
   Tall Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Lysiphyllum cunninghamii

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Light clay; Moderate grade of structure, Granular; Rough-ped fabric; Dry; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8 (Raupach);
B21	0.05 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Medium clay; Moderate grade of structure, Subangular blocky; Rough-ped fabric; Dry; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.5 (Raupach);
B22	0.3 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Heavy clay; Strong grade of structure, Subangular blocky; Smooth-ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);
BC	0.6 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Heavy clay; Strong grade of structure, Subangular blocky; Smooth-ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.5 (Raupach);
C	0.9 - 1.5 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Heavy clay; Strong grade of structure, Subangular blocky; Smooth-ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.5 (Raupach);

**Morphological Notes**

**Observation Notes**

GREY CRACKING CLAY DEPRESSION IN THE ALLUVIAL SYSTEM.    SCATTERED....THROUGHOUT UNIT.

**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