

Project Name: Bradshaw
Project Code: BRD **Site ID:** 50 **Observation ID:** 1
Agency Name: Conservation Commission of the Northern Territory

Site Information

Desc. By:		Locality:	
Date Desc.:	06/09/93	Elevation:	No Data
Map Ref.:	Sheet No. : 4967 1:100000	Rainfall:	No Data
Northing/Long.:	8302025 AMG zone: 52	Runoff:	Slow
Easting/Lat.:	644686 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Auger boring, 0.6 m deep, Slightly porous, Clay

Land Form

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

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion: Active, Severe (sheet) Active, Severe (rill)

Soil Classification

Australian Soil Classification:	Mapping Unit:	52
Epihypersodic-Endocalcareous Epipedal Brown Vertosol	Principal Profile Form:	N/A
Slightly gravelly Medium fine Medium fine Deep		
ASC Confidence:	Great Soil Group:	Brown clay
No analytical data are available but confidence is fair.		

Site Disturbance: Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation: Low Strata - Tussock grass, <0.25m, Isolated plants. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus microcarpa

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, subrounded, Sandstone; 0-2%, fine gravelly, 2-6mm, subrounded, Sandstone

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, Subangular blocky; Smooth-ped fabric; Dry; Field pH 9.5 (Raupach);
B11	0.1 - 0.3 m	Brown (10YR5/3-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, Subangular blocky; Smooth-ped fabric; Dry; Field pH 9.5 (Raupach);
B12	0.3 - 0.6 m	Brown (10YR5/3-Moist); , 7.5YR58, 0-2% , 0-5mm, Faint; Light medium clay; Moderate grade of structure, Subangular blocky; Smooth-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);
C	0.6 - 1.5 m	Brown (10YR5/3-Moist); , 7.5YR58, 10-20% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, Subangular blocky; Smooth-ped fabric; Moist; 2-10%, fine gravelly, 2-6mm, subangular tabular, Gypsum, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

deep olive brown mottled cracking clay, extensive mottling, carbonate concretions and gypsum crystals forming at 60 150 cm high pH probably quite saline

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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