

Project Name: Bradshaw
Project Code: BRD **Site ID:** 106B **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	11/10/96	Elevation:	No Data
Map Ref.:	Sheet No. : 4966-1 1:50000	Rainfall:	No Data
Northing/Long.:	8296760 AMG zone: 52	Runoff:	Very slow
Easting/Lat.:	654670 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czs	Substrate Material:	Auger boring, 0.5 m deep, Slightly porous, Alcrete (bauxite)

Land Form

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

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

Erosion:

Soil Classification

Australian Soil Classification:	Episodic-Epicalcareous Crusty Brown Vertosol Slightly gravelly Medium fine Medium fine Very deep	Mapping Unit:	12
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	N/A

Great Soil Group: N/A

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - *Aristida latifolia*, *Chrysopogon fallax*, *Eulalia aurea*,
Sorghum timorense Mid Strata - Shrub, 1.01-3m, Very sparse. *Species includes - *Excoecaria parvifolia*,
Atalaya hemiglauc

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - *Excoecaria parvifolia*, *Eucalyptus microtheca*,
Lysiphyllum cunninghamii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Brown (10YR4/3-Moist); , 0-0% ; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very plastic; Strongly subplastic; Very sticky; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B2t	0.03 - 0.4 m	Yellowish brown (10YR5/6-Moist); , 10YR58, 2-10% , 5-15mm, Faint; Medium clay; Strong grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change
B2k	0.4 - 0.6 m	Light olive brown (2.5Y5/6-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 9 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

FLOODWATER LINES

Site Notes

PHOTO NO; SURFACE - MIDHIGH OPEN, PROFILE - WOODLAND - EXOCAERIA PARVIFOLIA, E.MICROTHERCA, ATALAYA HEMIGLAUCA - SHRUB, LYSIPHILLUM CUNNINGHAMII - ARISTIDA LATIFOLIA, CHRYSOPOGEN FALLAX, EULALIA AUREA, SORGHUM SP - GRASSES.....

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.03	5.6C 6.2A	0.04A								
0.1 - 0.2	5.7C 6.1A	0.14A								

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Laboratory Analyses Completed for this profile

3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1