Project Name: **Bradshaw**
Project Code: **BRD** **Site ID:** **108B** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 11/10/96
Map Ref.: Sheet No. : 4966-1 1:50000
Northing/Long.: 8300485 AMG zone: 52
Easting/Lat.: 652613 Datum: AGD66
Locality:
Elevation: 0 metres
Rainfall: No Data
Runoff: Very slow
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Porous, Alluvium

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Basic Stratic Rudosol Slightly gravelly Clay-loamy Very shallow
Mapping Unit: 11
Principal Profile Form: N/A

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: N/A

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Isolated plants. *Species includes - Chrysopogon fallax
Mid Strata - Shrub, 0.51-1m, Closed or dense. *Species includes - Acacia holosericea, Melaleuca viridiflora
Tall Strata - Tree, , Closed or dense. *Species includes - Adansonia gregorii, Acacia holosericea, Melaleuca viridiflora,
Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0.01 - 0.05 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy clay loam, fine sandy; Weak grade of structure, <2 mm, Granular; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Moderately sticky; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
D1	0.05 - 0.2 m	Dark yellowish brown (10YR4/6-Moist); , 0-0% ; Fine sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Moderately plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6 (Raupach); Common, fine (1-2mm)
D2	0.2 - 0.6 m	Dark yellowish brown (10YR4/6-Moist); , 0-0% ; Fine sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Moderately plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; Field pH 6 (Raupach); Common, fine (1-2mm)
O1	0 - 0.01 m	Organic Layer; ; Dry;

Morphological Notes

Observation Notes

ACACIA LITTER OR ...

Site Notes

PHOTO NO; SURFACE - 12, PROFILE - , MELALEUCA VIRIDIFLORA, AIHOLOSENCEA (TREE + SHRUB), BOAB, EUC SP. (POLY CARPA), CHRYSOPOGAN FALLAX, THICK ACACIA LEAF LITTER. RUDOSOL, STRATIC, BARRIC, SL.GRAVELLY, CLAY, V.SHALLOW.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.03	5.4C 5.8A	0.1A								
0.1 - 0.2	5.6C 6.6A	0.02A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03												
0.1 - 0.2												

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
0 - 0.03										
0.1 - 0.2										

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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