Project Name: **Bradshaw**
Project Code: **BRD** **Site ID:** **401** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 18/10/96
Map Ref.: Sheet No. : 5067-4 1:50000
Northing/Long.: 8333672 AMG zone: 52
Easting/Lat.: 668930 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Very slow
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Flat
Elem. Type: Fan
Slope: 1 %
Pattern Type: Plain
Relief: 0 metres
Slope Category: Very gently sloped
Aspect: 90 degrees

Surface Soil Condition (dry): Surface crust, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Palic Regolithic Leptic Tenosol Medium Non-gravelly Loamy Loamy Deep
Mapping Unit: 34
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, Sparse. *Species includes - Themeda triandra, Chrysopogon fallax, Plectrachne pungens Mid Strata - Shrub, 1.01-3m, Mid-dense. *Species includes - Carissa lanceolata, Terminalia volucris

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus polycarpa

Surface Coarse Fragments: 0-2%, stony, 200-600mm, rounded, Sandstone

Profile Morphology

A11	0 - 0.1 m	Brown (7.5YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular tabular, Siltstone, coarse fragments; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.1 - 0.2 m	Brown (7.5YR4/4-Moist); Light brown (7.5YR6/4-Dry); , 0-0% ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;
B1	0.2 - 0.3 m	Yellowish red (5YR5/6-Moist); , 0-0% ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular tabular, Siltstone, coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B2	0.3 - 1 m	Yellowish red (5YR5/8-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular tabular, Siltstone, coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

REFER NOTES....

Site Notes

PHOTO NO; SURFACE - 16 (ROLL 4), THEMEDA TRIANDRA, TERMIUALRA VOLUCRIS, CHRYSOPOGN FALLAX, E.POLYCARPA, CARISSA LANCEOLATA, E.CABBAGII, SELUMIA VER..., PLECTRACHUE PUNG..., TEROSOL, LEPTIC, REGOLITHIC, PALIC,.....

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.8C 5.8A	0.02A	1.96C	0.48	0.18	0.05		4.1K	2.7D	1.22
0.2 - 0.3	4.6C 5.7A	0.01A	0.49C	0.23	0.11	0.05		1.6K	0.9D	3.13

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 - 0.1		0.85C	<2E						33.8A	54.4	5.6	4.2
0.2 - 0.3		0.14C	<2E						39A	45.9	7.8	7

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 - 0.1									
0.2 - 0.3									

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Laboratory Analyses Completed for this profile

15B1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15B1_K	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15B1_MG	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15B1_NA	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15I3	CEC measurement - automated determination of ammonium and chloride ions
15J_BASES	Sum of Bases
2A1	Air-dry moisture content
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
6B3	Total organic carbon - high frequency induction furnace, infrared
9B2	Bicarbonate-extractable phosphorus - automated colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method