Project Name: **Bradshaw**
Project Code: **BRD** **Site ID:** **106A** **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.: 8296620 AMG zone: 52
Easting/Lat.: 654599 Datum: AGD66
Locality:
Elevation: 8 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: Czs
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Slightly porous, Alluvium

Land Form

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

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

Erosion:

Soil Classification

Australian Soil Classification:
Episodic-Epicalcareous Crusty Brown Vertosol Non-gravelly Medium fine Medium fine Very deep
Mapping Unit: 12
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, 0.51-1m, Sparse. *Species includes - Aristida latifolia, Chrysopogon fallax
Mid Strata - Shrub, 1.01-3m, Very sparse. *Species includes - Carissa lanceolata
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus microtheca, Excoecaria parvifolia, Lysiphyllum cunninghamii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Dark yellowish brown (10YR4/6-Moist); ; Medium clay; Massive grade of structure; Earthy fabric; Dry; Very plastic; Normal plasticity; Very sticky; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Sandstone, coarse fragments; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.03 - 0.5 m	Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very plastic; Normal plasticity; Very sticky; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B2	0.5 - m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very plastic; Normal plasticity; Very sticky; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

SIMILAR K104 BUT NOT.....

Site Notes

PHOTO NO; SURFACE 21 OPEN WOODLAND - : TREE- EUCALYPTUS MICROTHEEA, EXOCAERIA PARVIFLORA, LYSIPHYLLUM CUNNINGHAMIL, CARISSA LANCEOLATA - SHRUB, ARISTIDA LATIFOLIA, CHRYSOPOGON FALLAX - GRASSES....

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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 - 0.03	5.6C 6.2A	0.04A								
0.1 - 0.2	4.9C 5.7A	0.08A	3.76C	6.19	0.35	0.32		14.6K	10.6D	2.19

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

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