

Project Name: Bradshaw
Project Code: BRD **Site ID:** 102A **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	10/09/96	Elevation:	13 metres
Map Ref.:	Sheet No. : 4966-1 1:50000	Rainfall:	No Data
Northing/Long.:	8285022 AMG zone: 52	Runoff:	Very slow
Easting/Lat.:	651693 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czs	Substrate Material:	Auger boring, 0.55 m deep,Porous, Coal

Land Form

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

Surface Soil Condition (dry): Firm

Erosion: No wind erosion (wind);

Soil Classification

Australian Soil Classification:	Mapping Unit:	13
Mottled Mesotrophic Brown Chromosol Medium Non-gravelly	Principal Profile Form:	Dy3.51
Sandy Clay-loamy Moderately deep	Great Soil Group:	Yellow earth

ASC Confidence:

All necessary analytical data are available.

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

Vegetation: Low Strata - Sedge, 0.26-0.5m, Closed or dense. *Species includes - Unknown species
Mid Strata - Tree, 1.01-3m, Mid-dense. *Species includes - Melaleuca viridiflora
Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Melaleuca viridiflora, Eucalyptus polycarpa,
Eucalyptus grandifolia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); , 7.5YR58, 10-20% , 5-15mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moderately moist; Field pH 6 (Raupach); Field pH 5 (Raupach); Gradual, Smooth change to -
A2	0.07 - 0.15 m	Brown (10YR4/3-Moist); Light brownish grey (10YR6/2-Dry); , 10YR58, 10-20% , 5-15mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moderately moist; Gradual, Smooth change to -
B2g	0.15 - 0.55 m	Yellowish brown (10YR5/6-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; Sandy light clay; Massive grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Moderately moist; Clear, Smooth change to -
D1	0.55 - 0.8 m	Yellowish brown (10YR5/6-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; , 10YR62; Sandy loam (Heavy); Massive grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Moderately moist; Gradual, Smooth change to -
D2	0.8 - 1 m	Yellowish brown (10YR5/6-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 10YR58; Clayey sand; Massive grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Moderately moist; Few cutans, <10% of ped faces or walls coated, distinct; Gradual, Smooth change to -
D3	1 - 1.1 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Massive grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Dry; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Gradual change to -

Morphological Notes

Observation Notes

PHOTO NO. SURFACE - 10, PROFILE - 9, MEL.VIRIDFLORA, E.POLYCARPE, E.GRANDIFOLIA, SEDGE/RICE GRASS?

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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				%
0.2 - 0.3	4.2C 5.1A	0.01A	0.46C	0.84	0.12	0.05		3K	1.5D	1.67

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.2 - 0.3												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents						K sat	K unsat
m			0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	mm/h	mm/h
0.2 - 0.3					g/g -	m3/m3				

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Laboratory Analyses Completed for this profile

15B1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
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