

Project Name: Bradshaw
Project Code: BRD **Site ID:** 403 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	18/10/96	Elevation:	No Data
Map Ref.:	Sheet No. : 5067-4 1:50000	Rainfall:	No Data
Northing/Long.:	8333307 AMG zone: 52	Runoff:	No Data
Easting/Lat.:	670812 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Pediment
Morph. Type:	No Data	Relief:	0 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	31
Haplic Eutrophic Brown Chromosol Medium Non-gravelly Clay-loamy Clayey Deep		Principal Profile Form:	N/A

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

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Closed or dense. *Species includes - Themeda triandra, Iseilema vaginiflorum,
Astrebla squarrosa

Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: 20-50%, bouldery, 600mm-2m, rounded, Sandstone; 20-50%, bouldery, 600mm-2m, rounded, Sandstone

Profile Morphology

A11	0 - 0.03 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Clay loam; Moderate grade of structure, 5-10 mm, Platy; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, fine gravelly, 2-6mm, rounded, Sandstone, coarse fragments; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.03 - 0.25 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; 10-20%, cobbly, 60-200mm, rounded, Sandstone, coarse fragments; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.25 - 0.6 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Non-sticky; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.6 - m	Dark red (2.5YR3/6-Moist); , 0-0% ; Heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

PHOTO NO; SURFACE - 2. FLINDERS GRASS,....., E.CABBAGII.....REFER NOTES

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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	5.7C 6.4A	0.03A								
0.25 - 0.4	5.5C 6.1A	0.02A	7.34C	2.24	0.54	0.04		14.1K	10.2D	0.28

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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
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