Project Name: Bradshaw

Project Code: BRD Site ID: 109A Observation ID: 1

Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth Locality:

Date Desc.:12/10/96Elevation:No DataMap Ref.:Sheet No.: 4966-11:50000Rainfall:No DataNorthing/Long.:8302762 AMG zone: 52Runoff:Very slow

Easting/Lat.: 653589 Datum: AGD66 Drainage: Imperfectly drained

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Paa Substrate Material: Slightly porous, Alluvium

Land Form

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Self-Mulching Black Vertosol Non-gravelly Very fine

Mapping Unit: 51

Principal Profile Form: N/A

Very fine Very deep

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 - Iseilema species, Chrysopogon

fallax,

Dicanthium fecundum, Panicum decompositum, Aristida latifolia, Ventilago viminalis

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eulalia aurea, Lysiphyllum cunninghamii, Acacia

bidwillii,

Eucalyptus terminalis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.03 m Dark greyish brown (2.5Y4/2-Moist); , 0-0%; Heavy clay; Strong grade of structure, <2 mm,

Granular; Rough-ped fabric; Extremely coarse, (50 - 100) mm crack; Common (1-5 per 100mm2)

Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Field pH 7

(Raupach); Clear change to -

B2 0.03 - 0.65 m Dark greyish brown (2.5Y4/2-Moist); , 0-0%; Heavy clay; Strong grade of structure, 20-50 mm,

Subangular blocky; Smooth-ped fabric; Extremely coarse, (50 - 100) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky;

Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %),

Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach); Common, fine (1-2mm)

Morphological Notes

Observation Notes

Site Notes

PHOTO NO; SURFACE - 21, PROFILE - , ISFOLEMA SPP - FLINDERS GRASS, CHRINO POLO...., DIC......

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na E	Exchangeable Acidity	CEC	E	CEC	ESP
m		dS/m	Ca i	my	N	Cmol (+)					%
0 - 0.03	6.5C 7.2A	0.04A	16.8C	8.72	0.78	0.09		33.1K	26	.4D	0.27
0.1 - 0.2	6.7C 7.6A	0.03A	19.26E	8.28	0.39	0.23		34.3K	28	.2D	0.67
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Density	Pai GV	CS F		sis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.03 0.1 - 0.2		0.72C 0.42C	2E <2E						5.3A 7.1A		.1 44.3 .3 45.4
Depth	COLE				olumetric V				K sat	K uns	sat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15 E	Bar	mm/h	mm	h'

0 - 0.03 0.1 - 0.2

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15B1_CA

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Agency Name: **CSIRO Division of Soils (SA)**

Laboratory Analyses Completed for this profile

	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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment
	for soluble salts

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for

15C1_K Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble

Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble 15C1_MG

salts

15C1_NA Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble

salts

1513 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 Total organic carbon - high frequency induction furnace, infrared 6B3

Bicarbonate-extractable phosphorus - automated colour 9B2

P10_CF_C Clay (%) - Coventry and Fett pipette method

P10_CF_CS P10_CF_FS Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method P10_CF_Z Silt (%) - Coventry and Fett pipette method