Project Name: BB
Project Code: BB **Site ID:** B349 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Beckmann	**Locality:**	
Date Desc.:	14/04/58	**Elevation:**	67 metres
Map Ref.:	Sheet No. : 9542 1:100000	**Rainfall:**	1016
Northing/Long.:	153.026388888889	**Runoff:**	Moderately rapid
Easting/Lat.:	-27.6597222222222	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	RJo	**Substrate Material:**	Auger boring, 1.5 m deep,Sandstone

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	21 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Magnesic Yellow Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy5.41
Great Soil Group: Lateritic podzolic soil

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species, Imperata cylindrica
Mid Strata - Shrub, , . *Species includes - Leptospermum flavescens
Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Eucalyptus crebra, Eucalyptus species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sand; Single grain grade of structure; Moist; Loose consistence; Field pH 5.7 (pH meter); Common, very fine (0-1mm) roots; Gradual change
A21	0.12 - 0.32 m	Olive brown (2.5Y4/4-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A22	0.32 - 0.55 m	Light yellowish brown (2.5Y6/4-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; Field pH 5.8 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A3	0.55 - 0.62 m	Pale yellow (2.5Y7/3-Moist); ; Clayey sand (Heavy); Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.9 (pH meter); Clear change to -
B1	0.62 - 0.7 m	Olive yellow (5Y6/5-Moist); ; Sandy medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.9 (pH meter); Gradual change to -
B21	0.7 - 0.98 m	Brownish yellow (10YR6/6-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.6 (pH meter); Gradual change to -
B22	0.98 - 1.35 m	Brownish yellow (10YR6/8-Moist); , 2.5YR34; , 10YR66; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.6 (pH meter);
C	1.45 - 2.03 m	; Heavy clay;

Morphological Notes

Observation Notes

Site Notes

BROWNS PLAINS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Cmol (+)/kg							%
0 - 0.12	5.7H	0.01C	0.6K	0.23	0.06	0.01		6.3J		0.16
0.12 - 0.32	5.5H	0.01C								
0.32 - 0.55	5.8H	<0.01C	0.07K	0.13	0.02	0.02		4.6J		0.43
0.55 - 0.62	5.9H	<0.01C								
0.62 - 0.7	5.9H	0.01C								
0.7 - 0.98	5.6H	0.01C	0.01K	3.3	0.02	0.16		11.8J		1.36
0.98 - 1.35	5.6H	0.01C								
1.45 - 2.03	5.3H	0.01B								

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 - 0.12		1.29E	4C	0.003F	0.06B			1	49C	37	7	6
0.12 - 0.32		1.01E										
0.32 - 0.55		0.13E						3	46C	41	7	5
0.55 - 0.62												
0.62 - 0.7												
0.7 - 0.98				0.009F				47	31C	27	7	36
0.98 - 1.35												
1.45 - 2.03				0.009F				6				

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.12										
0.12 - 0.32										
0.32 - 0.55										
0.55 - 0.62										
0.62 - 0.7										
0.7 - 0.98										
0.98 - 1.35										
1.45 - 2.03										

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded