Project Name: BB
Project Code: BB **Site ID:** B306 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 22/01/57
Map Ref.: Sheet No. : 9442 1:100000
Northing/Long.: 152.959722222222
Easting/Lat.: -27.6027777777778
Locality:
Elevation: 61 metres
Rainfall: 1092
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: Ts
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Existing vertical exposure, Sandstone

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 0 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Yellow Chromosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dy5.81
Great Soil Group: Lateritic podzolic soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, , . *Species includes - Imperata cylindrica
Mid Strata - Tree, 3.01-6m, Closed or dense. *Species includes - Acacia species
Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.11 m	Greyish brown (10YR5/2-Dry); ; Loamy sand; Weak grade of structure, 5-10 mm, Angular blocky; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 6.4 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A12	0.11 - 0.28 m	Light brownish grey (10YR6/2-Dry); ; Sand; Massive grade of structure; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.1 (pH meter); Gradual change to -
A21	0.28 - 0.62 m	Yellow (10YR7/5-Dry); ; Sand; Massive grade of structure; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.9 (pH meter); Gradual change to -
A22	0.62 - 0.9 m	Very pale brown (10YR8/4-Dry); ; Sand; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Gradual change to -
A3	0.9 - 1.28 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Massive grade of structure; Moist; Very weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.3 (pH meter); Clear change to -
B1	1.28 - 1.62 m	Reddish yellow (7.5YR6/6-Moist); , 5YR48; , 2.5YR46; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, , Nodules; Field pH 6.3 (pH meter); Gradual change to -
B2	1.62 - 2.26 m	Pale olive (5Y6/4-Moist); , 10R36, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Coarse sandy medium clay; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

INALA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.11	6.4A	0.01C								
0 - 0.09	5.9A	0.01C								
0.11 - 0.28	6.1A	0.01C								
0.28 - 0.62	5.9A	0.01C								
0.62 - 0.9	6A	0.01C								
0.9 - 1.28	6.3A	0.01C								
1.28 - 1.62	6.3A	0.01C								
1.62 - 2.26	5.8A	0.01C								

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 - 0.11		1.46E 0.9E	6C					1	63C	28	9	1
0 - 0.09		0.79E						1	68C	24	6	1
0.11 - 0.28		0.39E						1	65C	27	8	1
0.28 - 0.62		0.15E						2	58C	32	8	3
0.62 - 0.9								11	61C	32	7	2
0.9 - 1.28								48	59C	31	9	2
1.28 - 1.62								54	49C	25	13	16
1.62 - 2.26								40	47C	15	11	27

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 - 0.11										
0 - 0.09										
0.11 - 0.28										
0.28 - 0.62										
0.62 - 0.9										
0.9 - 1.28										
1.28 - 1.62										
1.62 - 2.26										

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Laboratory Analyses Completed for this profile

2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6Z	Organic carbon (%) - Not recorded
9_NR	Available P (mg/kg) - 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