

Project Name: BOB
Project Code: BOB **Site ID:** B519 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R. Paton	Locality:	
Date Desc.:	20/11/63	Elevation:	104 metres
Map Ref.:	Sheet No. : 9442 1:100000	Rainfall:	887
Northing/Long.:	152.871666666667	Runoff:	Moderately rapid
Easting/Lat.:	-27.813888888889	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Jm	Substrate Material:	Soil pit, 0.84 m deep, Sandstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	7 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Sodic Eutrophic Yellow Chromosol		Principal Profile Form:	Dy3.41
ASC Confidence:		Great Soil Group:	Soloth
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus propinqua, Eucalyptus crebra, Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam (Light); Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very weak consistence; 0-2%, Quartz, coarse fragments; Field pH 6.3 (pH meter); Many, fine (1-2mm) roots; Clear change to -
A2	0.08 - 0.18 m	Light brownish grey (10YR6/2-Moist); , 10YR54, 20-50% , Faint; , 20-50% , Faint; Loamy sand; Massive grade of structure; Moderately moist; Very weak consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Field pH 6.4 (pH meter); Common, fine (1-2mm) roots; Sharp, Irregular change to -
B2	0.18 - 0.36 m	Reddish yellow (7.5YR6/8-Moist); , 5YR68, 10-20% , 5-15mm, Prominent; , 10YR51, 10-20% , 5-15mm, Prominent; Sandy medium clay; Strong grade of structure, 200-500 mm, Columnar; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 6.3 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.36 - 0.56 m	Reddish yellow (7.5YR6/8-Moist); , 5YR68, 10-20% , 5-15mm, Prominent; , 10YR51, 10-20% , 5-15mm, Prominent; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 6.2 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B3	0.56 - 0.84 m	Strong brown (7.5YR5/6-Moist); , 10YR53, 20-50% , 30-mm, Distinct; , 20-50% , 30-mm, Distinct; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 5.2 (pH meter); Gradual change to -
C	0.84 - 1.22 m	Strong brown (7.5YR5/8-Moist); , 5Y83; Sandy medium clay (Light); Massive grade of structure; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, Sandstone, coarse fragments; Field pH 5 (pH meter);

Morphological Notes

Observation Notes

0-8CM POROUS ANGULAR BLOCKY STRUCTURE.

Site Notes

LANCEWOOD

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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 - 0.08	6.3H	0.02B								
0.08 - 0.18	6.4H	0.01B								
0.18 - 0.36	6.3H	0.03B	3.5K	9.5	0.52	1.1	5.1D			
0.36 - 0.56	6.2H	0.04B								
0.56 - 0.84	5.2H	0.1B	2.2K	9.8	0.19	2.5	6.1D			
0.84 - 1.22	5H	0.15B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		1.74A	12C	0.017F	0.165B				33C	42	11	8
0.08 - 0.18												
0.18 - 0.36		0.38A		0.007F					27C	28	11	34
0.36 - 0.56												
0.56 - 0.84									29C	30	14	28
0.84 - 1.22				0.01F								

[illegible]

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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_H	Hydrogen Cation - 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
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
MIN_EC	Exchange Capacity - Minerology
MIN_NR_K2O	Kaolin minerals
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
XRD_C_Fd	Feldspar - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction