

**Project Name:** BOB  
**Project Code:** BOB      **Site ID:** B513      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	R. Paton	<b>Locality:</b>	
<b>Date Desc.:</b>	07/11/63	<b>Elevation:</b>	137 metres
<b>Map Ref.:</b>	Sheet No. : 9442    1:100000	<b>Rainfall:</b>	864
<b>Northing/Long.:</b>	152.71111111111111	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	-27.937777777778	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Jw	<b>Substrate Material:</b>	Soil pit, 0.56 m deep, Igneous rock (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	46 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Epipedal Brown Vertosol		<b>Principal Profile Form:</b>	Gn3.22
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Prairie soil

No analytical data are available but confidence is fair.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:**

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A11	0 - 0.05 m	Brown (7.5YR4/3-Moist); ; Light clay (Light); Strong grade of structure, 2-5 mm, Polyhedral; Moderately moist; Very weak consistence; Field pH 6.6 (pH meter); Abundant, fine (1-2mm) roots; Sharp change to -
A12	0.05 - 0.1 m	Brown (7.5YR4/4-Moist); ; Light clay (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Moderately moist; Very weak consistence; Field pH 6.8 (pH meter); Many, fine (1-2mm) roots; Clear change to -
B2	0.1 - 0.2 m	Brown (7.5YR4/4-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; Field pH 6.9 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.2 - 0.3 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; Field pH 7 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B3	0.3 - 0.56 m	Brown (7.5YR5/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; Field pH 7.4 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
C	0.56 - 0.86 m	Reddish yellow (7.5YR6/6-Moist); ; Sandy medium clay; Massive grade of structure; Moderately moist; Firm consistence; Field pH 7.2 (pH meter); Few, fine (1-2mm) roots;

**Morphological Notes**

**Observation Notes**

SOFTWOOD SCRUB:

**Site Notes**

ROADVALE

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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 - 0.05	6.6H	0.04B	18.2K	7.4	2.2	0.25	9.8D			
0.05 - 0.1	6.8H	0.02B								
0.1 - 0.2	6.9H	0.02B	20.5K	6.6	0.42	0.14	0.6D			
0.2 - 0.3	7H	0.03B								
0.3 - 0.56	7.4H	0.01B	21K	13.1	0.06	0.46	7.3D			
0.56 - 0.86	7.2H	0.03B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		3.6A	925C	0.244F			1.20		1C	42	16	30
0.05 - 0.1							1.20					
0.1 - 0.2		1.6A					1.30					
0.2 - 0.3							1.30					
0.3 - 0.56		0.4A										
0.56 - 0.86							1.50					

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
					g/g -	m3/m3			mm/h
0 - 0.05				0.39C				0.2C	
0.05 - 0.1				0.41C				0.18C	
0.1 - 0.2				0.35C				0.22C	
0.2 - 0.3				0.34C				0.2C	
0.3 - 0.56									
0.56 - 0.86				0.35C				0.22C	

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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
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m3/m3 - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m3/m3 - Volumetric using pressure plate