

**Project Name:** BOB  
**Project Code:** BOB      **Site ID:** B509      **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>	04/11/63	<b>Elevation:</b>	137 metres
<b>Map Ref.:</b>	Sheet No. : 9442 1:100000	<b>Rainfall:</b>	798
<b>Northing/Long.:</b>	152.665555555556	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-27.946388888889	<b>Drainage:</b>	Imperfectly 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>	Auger boring, 1.3 m deep,Siltstone

**Land Form**

<b>Rel/Slope Class:</b>	Rolling hills 90-300m 10-32%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	91 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	10.5 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epicalcareous Self-Mulching Black Vertosol		<b>Principal Profile Form:</b>	Dd3.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Grey clay

All necessary analytical data are available.

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:**

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Acacia harpophylla

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

**Profile Morphology**

A1	0 - 0.03 m	Very dark brown (10YR2/3-Dry); ; Clay loam (Heavy); Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Sharp change to -
B2	0.03 - 0.13 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Field pH 6.3 (pH meter); Many, fine (1-2mm) roots; Clear, Wavy change to -
B2	0.13 - 0.25 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Field pH 8 (pH meter); Many, fine (1-2mm) roots; Clear, Irregular change to -
B2	0.25 - 0.64 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.64 - 0.79 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.79 - 1.07 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Strong grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	1.07 - 1.27 m	Pale brown (10YR6/3-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Strong grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to -

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C	1.27 - 1.83 m	Light yellowish brown (10YR6/4-Moist); ; Light medium clay; Massive grade of structure; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9 (pH meter); Gradual change to -
C	1.83 - 2.13 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Massive grade of structure; Moist; Firm consistence; Field pH 7.4 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

KALBAR

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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 - 0.03	6H	0.13B								
0.03 - 0.13	6.3H	0.04B	36.5K	11	0.95	1.21	15.1D			
0.13 - 0.25	8H	0.16B								
0.25 - 0.64	8.6H	0.33B	29.2K	19.8	0.27	6.9	4.4D			
0.64 - 0.79	8.6H	0.36B								
0.79 - 1.07	8.8H	0.38B								
1.07 - 1.27	8.8H	0.37B								
1.27 - 1.83	9H	0.3B								
1.83 - 2.13	7.4H	0.27B								

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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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
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
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