

Project Name: BOB
Project Code: BOB **Site ID:** B505 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	25/10/63	Elevation:	55 metres
Map Ref.:	Sheet No. : 9442 1:100000	Rainfall:	914
Northing/Long.:	152.623333333333	Runoff:	Slow
Easting/Lat.:	-27.855555555556	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Jw	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Flood plain
Morph. Type:	Mid-slope	Relief:	5 metres
Elem. Type:	Levee	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Endocalcareous Epipedal Black Vertisol	Principal Profile Form:	Gn3.46
ASC Confidence:	Great Soil Group:	Prairie soil

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - Dichanthium sericeum
Tall Strata - Tree, , Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam (Heavy); Moderate grade of structure, 2-5 mm, Polyhedral; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Field pH 6.3 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A12	0.08 - 0.23 m	Very dark brown (10YR2/2-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Field pH 6.4 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A2	0.23 - 0.36 m	Very dark brown (10YR2/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 6.9 (pH meter); Common, fine (1-2mm) roots; Clear change to -
B2	0.36 - 0.79 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; Field pH 7.7 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B2	0.79 - 0.97 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Moderately moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B2	0.97 - 1.37 m	Yellowish brown (10YR5/4-Moist); , 10YR43, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Light clay; 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Gradual change to -
2B2b	1.37 - 1.85 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Gradual change to -
2B2b	1.85 - 2.34 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter); Gradual change to -

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2B2b	2.34 - 2.62 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Gradual change to -
2B2b	2.62 - 3.12 m	Brown (10YR4/3-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Strong grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

STRONGLY POLISHED PED FACES AND COMMON VERY FINE OCHROUS AND BLACK SPECKLING BELOW 1.37M.

Site Notes

HARRISVILLE

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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	0.03B								
0.08 - 0.23	6.4H	0.02B								
0.23 - 0.36	6.9H	0.02B								
0.36 - 0.79	7.7H	0.1B								
0.79 - 0.97	8.3H	0.15B								
0.97 - 1.37	8.4H	0.09B								
1.37 - 1.85	8.3H	0.12B								
1.85 - 2.34	8.2H	0.19B								
2.34 - 2.62	8.5H	0.14B								
2.62 - 3.12	8.6H	0.17B								

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO ₃) - 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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m ³ /m ³ - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m ³ /m ³ - Volumetric using pressure plate