Project Name: BOB
Project Code: BOB **Site ID:** B504 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 22/10/65
Map Ref.: Sheet No. : 9442 1:100000
Northing/Long.: 152.652777777778
Easting/Lat.: -27.8438888888889
Locality:
Elevation: 95 metres
Rainfall: 798
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Ty
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 1.1 m deep,Syenite

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: Summit surface
Slope: 0 %
Pattern Type: No Data
Relief: 61 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Hypocalcic Hypernatric Black Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dd1.43
Great Soil Group: Solodized solonetz

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark brown (7.5YR3/2-Moist); ; Loam; Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Abrupt change to -
A2	0.06 - 0.1 m	Brown (7.5YR5/2-Moist); Pinkish grey (7.5YR7/2-Dry); ; Loam; Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots; Abrupt, Wavy change to -
B2	0.1 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Strong grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 7.1 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.18 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 8.4 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B2	0.3 - 0.46 m	Brown (7.5YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; , Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.1 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B3	0.46 - 0.81 m	Reddish brown (5YR4/3-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Gradual change to -
B3	0.81 - 1.04 m	Reddish brown (5YR4/3-Moist); , 10YR43; Sandy medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.2 (pH meter); Gradual change to -
C	1.04 - 1.17 m	; Field pH 9.4 (pH meter);

Morphological Notes

C DYB(10YR4/4) with YB, W & BL speckles, weathered micro-sye

Observation Notes

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Site Notes
HARRISVILLE

B HORIZON CLAY INTRACTABLE, DOES NOT WET UP BUT FORMS A SURFACE SLIME.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.06	6H	0.03B	5.1K	3.1	0.46	0.6	16.4D			
0.06 - 0.1	6.2H	0.03B								
0.1 - 0.18	7.1H	0.09B								
0.18 - 0.3	8.4H	0.19B	9.4K	11.6	0.13	10.4	6.1D			
0.3 - 0.46	9.1H	0.33B								
0.46 - 0.81	9H	0.2B	6.8K	9.1	0.04	10.4	3.4D			
0.81 - 1.04	9.2H	0.14B								
1.04 - 1.17	9.4H	0.25B								

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 - 0.06		2.69A	59C	0.121F	0.215B			0	9C	51	16	16
0.06 - 0.1		1.46A						0	14C	52	18	13
0.1 - 0.18		1.64A							6C	36	12	42
0.18 - 0.3	0.1C	1.23A		0.041F					6C	37	12	42
0.3 - 0.46	1.6C	0.47A							6C	39	12	40
0.46 - 0.81	0.4C	0.2A						1	8C	48	12	31
0.81 - 1.04	0.5C											
1.04 - 1.17	0.5C			0.131F								

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 - 0.06									
0.06 - 0.1									
0.1 - 0.18									
0.18 - 0.3									
0.3 - 0.46									
0.46 - 0.81									
0.81 - 1.04									
1.04 - 1.17									

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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
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 recordede
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