

Project Name: BV
Project Code: BV **Site ID:** B445 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	03/05/61	Elevation:	76 metres
Map Ref.:	Sheet No. : 9343 1:100000	Rainfall:	960
Northing/Long.:	152.506666666667	Runoff:	Rapid
Easting/Lat.:	-27.265555555556	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Rn	Substrate Material:	Soil pit, 0.6 m deep, Andesite

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-32%	Pattern Type:	Low hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	3.5 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Subnatric Black Sodosol		Principal Profile Form:	Dd1.33
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - , , . *Species includes - Heteropogon contortus, Bothriochloa decipiens
Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus tessellaris

Surface Coarse Fragments: 0-2%, stony, 200-600mm, ,

Profile Morphology

A1A2	0 - 0.13 m	Greyish brown (10YR5/2-Dry); , 10YR71; Loam; Massive grade of structure; Dry; Firm consistence; 10-20%, coarse gravelly, 20-60mm, coarse fragments; Field pH 5.8 (pH meter); Many, fine (1-2mm) roots; Clear change to -
B21	0.13 - 0.28 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.4 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B22	0.28 - 0.46 m	Very dark greyish brown (10YR3/2-Moist); , 2.5Y54; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.6 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B3	0.48 - 0.61 m	Light olive brown (2.5Y5/4-Moist); , 2.5Y65; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 8.3 (pH meter); Gradual change to -
C	0.61 - 0.81 m	Pale yellow (2.5Y7/4-Moist); ; Field pH 8.5 (pH meter); Diffuse change to -
C	1.52 - 1.83 m	Light yellowish brown (10YR6/4-Moist); ; Field pH 5.4 (pH meter);

Morphological Notes

C Light yellowish brown (10YR6/4) sandy clay loam;

Observation Notes

STRONG SHEAR PLANE DEVELOPMENT IN B22: 13-15CM PRONOUNCED PATCHY BLEACH(10YR71d):

Site Notes

ESK

Observation ID: 1

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 - 0.13	5.5H	0.02B	3.1K	5.9	0.64	0.39	11.4D			
0.13 - 0.28	6.4H	0.08B								
0.28 - 0.46	7.6H	0.19B	9.3K	30.2	0.11	3.9	4.1D			
0.48 - 0.61	8.3H	0.27B								
0.61 - 0.81	8.5H	0.34B								
1.52 - 1.83	7.4H	0.13B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.13		2A	4C	0.044F		0.175B		19	15C	34	25	19
0.13 - 0.28		0.9A		0.044F				0	11C	14	14	59
0.28 - 0.46		0.6A						0	3C	12	18	64
0.48 - 0.61	0.08C								16C	30	30	30
0.61 - 0.81	0.03C							0	22C	32	22	22
1.52 - 1.83				0.029F								

[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
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 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