

Project Name: CB
Project Code: CB **Site ID:** B379 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.J. de Mooy	Locality:	
Date Desc.:	24/04/59	Elevation:	137 metres
Map Ref.:	Sheet No. : 9246 1:100000	Rainfall:	762
Northing/Long.:	151.662222222222	Runoff:	Moderately rapid
Easting/Lat.:	-25.615	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Ra	Substrate Material:	Soil pit, 0.35 m deep,Igneous rock (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	5.25 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Crusty Black Vertosol		Principal Profile Form:	Ug5.12
ASC Confidence:		Great Soil Group:	Black earth
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus species, Acacia species

Surface Coarse Fragments: 2-10%, stony, 200-600mm, , Igneous rock (unidentified)

Profile Morphology

A1	0 - 0.1 m	Black (10YR2/1-Moist); ; Light medium clay; Weak grade of structure, Platy; Dry; Very firm consistence; Field pH 6.5 (pH meter); Gradual change to -
B2	0.15 - 0.3 m	Black (10YR2/1-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, cobbly, 60-200mm, subrounded, Substrate material, coarse fragments; Field pH 7.1 (pH meter);

Morphological Notes

Observation Notes

0-10CM PLATY GRADING TO STRONG ANGULAR BLOCKY STRUCTURE:

Site Notes

CENTRAL BURNET

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC		ESP	
m		dS/m	Ca	Mg	K	Na	Cmol (+)/kg					%
0 - 0.1	6.5H	0.02B	22.9K	7.8	0.62	0.15		37.8J				0.40
0.15 - 0.3	7.1H	0.02B	28K	9.2	0.22	0.28		40.9J				0.68

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 - 0.1		2E	15C	0.031F	0.18B		1.30		10C	22	23	40
0.15 - 0.3		1.2E	11C	0.024F	0.11B		1.40		9C	20	21	48

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	mm/h
0 - 0.1				0.39C						
0.15 - 0.3				0.41C						

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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_CEC	CEC - 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
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
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