

Project Name: CB
Project Code: CB **Site ID:** B403 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.J. de Mooy	Locality:	
Date Desc.:	20/05/59	Elevation:	183 metres
Map Ref.:	Sheet No. : 9246 1:100000	Rainfall:	762
Northing/Long.:	151.991666666667	Runoff:	Moderately rapid
Easting/Lat.:	-25.5875	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Ra	Substrate Material:	Auger boring, 1 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8.7 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Subnatic Black Sodosol		Principal Profile Form:	Dd1.13
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, , Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loam (Heavy); Weak grade of structure, Angular blocky; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, coarse fragments; Field pH 6.1 (pH meter); Clear change to -
A3	0.1 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Clay loam; Weak grade of structure, Angular blocky; Dry; Firm consistence; Clear change to -
B2	0.15 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; Field pH 6.8 (pH meter); Gradual change to -
B2	0.3 - 0.46 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; Field pH 7.5 (pH meter); Gradual change to -
B2	0.46 - 0.63 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8 (pH meter); Diffuse change to -
B2	0.71 - 0.84 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, Lenticular; Strong grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Diffuse change to -
BC	0.91 - 1.07 m	Very dark grey (10YR3/1-Moist); ; Medium clay; , Lenticular; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Diffuse change to -
	1.22 - 1.37 m	Very dark grey (10YR3/1-Moist); ; Medium clay; , Lenticular; Firm consistence; 0-2%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Diffuse change to -
	1.52 - 1.68 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Diffuse change to -
	1.83 - 1.98 m	; Field pH 9.1 (pH meter);

Morphological Notes

DGB Clay with weathered rock fragments.

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DEGRADED BLACK EARTH:SLICENSIDES BELOW 46CM SUGGEST SOME LENTICULAR STRUCTURE: C.deMOODY
INDICATES

BURIED PROFILE AT 1.5M:SUBSTRATE IS COLLUVIUM FROM PORPHYRITIC ANDESITE AND METASEDIMENT:MINOR
INCLUSIONS OF WEATHERED ROCK FROM

Site Notes

CENTRAL BURNET

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[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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m3/m3 - Volumetric using suction plate