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 Parinage: 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/AVertic Subnatric Black SodosolPrincipal Profile Form:Dd1.13ASC Confidence:Great Soil Group:Black earth

All necessary analytical data are available.

<u>Site Disturbance:</u> 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

1 TOTTIC	Wildipilology	
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 -
А3	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 -
ВС	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 -
	1.50 1.00	Varied and array (40VD2/4 Maisty), Madisure along Firm appointance, Variety (0. 20V)

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.

Observation Notes

СВ Project Name:

Project Code: CB Site ID: B40 Agency Name: CSIRO Division of Soils (QLD) B403 Observation ID: 1

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

B403 Observation ID: 1

Project Name: CB
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Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Laboratory Test Nesdits.												
Depth	pН	1:5 EC		hangeable			xchangeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	K Na Acid Cmol (+)/kg		Acidity kg				%	
2 24	0.411	0.045	5 714	- .	0.50	0.54	0.50					
0 - 0.1 0.1 - 0.15	6.1H	0.01B	5.7K	7.1	0.56	0.51	6.5D					
0.15 - 0.3	6.8H	0.02B	6.5K	11.8	0.17	1.7	3.7D					
0.3 - 0.46	7.5H	0.07B					_					
0.46 - 0.63	8H 8.4H	0.23B 0.41B	7.1K	15	0.13	5.7	0D					
0.71 - 0.84 0.91 - 1.07	8.3H	0.41B 0.28B										
1.22 - 1.37	8.7H	0.16B										
1.52 - 1.68	9H	0.17B										
1.83 - 1.96	9.1H	0.16B										
Depth	CaCO3 (Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV		ize A FS	nalysis Silt	
m	%	%	mg/kg	%	N %	к %	Mg/m3	GV	CS	гэ %	SIIT	Clay
0 - 0.1 0.1 - 0.15		1.8A	12C	0.033F	0.15	5B	1.40	4	9C	25	35	28
0.1 - 0.13		0.9A	2C	0.02F	0.08	3B	1.60	0	6C	20	28	44
0.3 - 0.46		0.07.	0	0.02.	0.00			ŭ	00		_0	• •
0.46 - 0.63	0.06C	0.4A						1	10C	17	24	48
0.71 - 0.84 0.91 - 1.07												
1.22 - 1.37												
1.52 - 1.68	0.5C						1.60		12C	20	25	39
1.83 - 1.96		2A										
Depth	COLE		Cra	·i	lum atria 14	latar Camta			K sat		/	
Берш	COLE	Sat.	0.05 Bar	imetric/Volumetric W 0.1 Bar 0.5 Bar		1 Bar 5 Bar		15 Bar	K Sat	K sat K unsat		
m				g/g - m3/m3		3			mm/h		mm/h	
0 - 0.1 0.1 - 0.15				0.34C								
0.15 - 0.3				0.36C								
0.3 - 0.46												
0.46 - 0.63												
0.71 - 0.84 0.91 - 1.07												
1.22 - 1.37												
1.52 - 1.68				0.38C								
1.83 - 1.96												

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Laboratory Analyses Completed for this profile

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded 15 NR CA 15_NR_H Hydrogen Cation - meq per 100g of soil - Not recorded

Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15_NR_K 15 NR MG 15_NR_NA

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

Water soluble Chloride - Cl(%) - Not recordede 5_NR

Organic carbon - Walkley and Black Total nitrogen (%) - Not recorded 6A1 7_NR Available P (mg/kg) - Not recorded 9_NR 9A_NR Total element - P(%) - Not recorded

Gravel (%)

P10_GRAV 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