Project Name: COL
Project Code: COL **Site ID:** B488 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell
Date Desc.: 11/11/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.788888888889
Easting/Lat.: -20.7777777777778
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Puw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1 m deep,Sandstone

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 3.5 %
Pattern Type: Plain
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous Self-Mulching Grey Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.23
Great Soil Group: Grey clay

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

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - Bothriochloa ewartiana

Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus papuana, Eucalyptus dichromophloia

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.4 (pH meter); Clear change to -
B2	0.15 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Gradual change to -
B2	0.3 - 0.61 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; , Lenticular; Dry; Strong consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.9 (pH meter); Gradual change to -
B2	0.61 - 0.91 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9 (pH meter); Gradual change to -
BC	1.02 - 1.17 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; , Lenticular; Dry; Firm consistence; 2-10%, Sandstone, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9 (pH

Morphological Notes

Observation Notes

PUFF PROFILE; PROMINENT ACCUMULATION OF CARBONATE NODULES 6-12MM DIAMETER:SUBSTRATE IS FINE CALCAREOUS SANDSTONE AND MUDSTONE

Site Notes

COLLINSVILLE

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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 - 0.15	8.4H	0.05B	35.1K	18	0.6	0.4	0D			
0.15 - 0.3	8.7H	0.06B								
0.3 - 0.61	8.9H	0.08B	28.1K	24.6	0.32	2.4	0D			
0.61 - 0.91	9H	0.12B								
1.02 - 1.17	9H	0.16B								

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 - 0.15	0.83C	0.6A	15C	0.017F	0.075B				6C	18	17	56
0.15 - 0.3			9C					2	6C	17	17	58
0.3 - 0.61	2.4C	0.48A	12C					3	5C	16	16	59
0.61 - 0.91												
1.02 - 1.17			80C	0.031F								

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 - 0.15									
0.15 - 0.3									
0.3 - 0.61									
0.61 - 0.91									
1.02 - 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