Project Name: COL
Project Code: COL **Site ID:** B472 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell
Date Desc.: 28/07/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.822222222222
Easting/Lat.: -20.8111111111111
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: Soil pit, 0.58 m deep,Sandstone

Land Form

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: No Data
Slope: 0 %
Pattern Type: No Data
Relief: 9 metres
Slope Category: No Data
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: Ug5.22
Great Soil Group: Brown 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, , Isolated plants. *Species includes - Eucalyptus orgadophylla, Eucalyptus dichromophloia

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, , Sandstone

Profile Morphology

A1	0 - 0.02 m	Dark brown (10YR3/3-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; Field pH 7.3 (pH meter); Sharp change to -
B2	0.02 - 0.3 m	Brown (7.5YR4/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 7.4 (pH meter); Gradual change to -
B3	0.3 - 0.58 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Firm consistence; 2-10%, Sandstone, coarse fragments; Common (10 - 20 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Gradual change to -
C	0.58 - 0.86 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Firm consistence; 20-50%, Sandstone, coarse fragments; Common (10 - 20 %), Calcareous, , Nodules; Field pH 8.9 (pH meter); Diffuse change to -
C	0.86 - 0.96 m	; Field pH 9 (pH meter);

Morphological Notes

C Light yellowish brown (10YR6/5) weat'd calcareous sandstone

Observation Notes

Site Notes

COLLINSVILLE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.02	7.3H	0.02B								
0.02 - 0.3	7.4H	0.02B	29.4K	7	0.63	0.07	3.4D			
0.3 - 0.58	8.6H	0.05B	24.8K	7.3	0.28	0.55	0D			
0.58 - 0.86	8.9H	0.04B								
0.86 - 0.96	9H	0.04B								

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 - 0.02		1.4A	54C	0.05F	0.149B			2	6C	28	19	45
0.02 - 0.3	0C	1.3A	5C	0.036F	0.128B			0	4C	16	18	60
0.3 - 0.58	18.6C	0.82A	34C		0.105B			2	4C	14	18	43
0.58 - 0.86		0.29A			0.067B							
0.86 - 0.96			260C	0.051F								

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 - 0.02										
0.02 - 0.3										
0.3 - 0.58										
0.58 - 0.86										
0.86 - 0.96										

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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