Project Name: COL
Project Code: COL **Site ID:** B487 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell
Date Desc.: 19/07/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.876388888889
Easting/Lat.: -20.7916666666667
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Puw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.1 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: No Data
Slope: 0 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Calcic Red Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr4.23
Great Soil Group: Red-brown earth

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus dichromophloia, Eucalyptus drepanophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.13 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.8 (pH meter); Clear change to -
A2	0.13 - 0.23 m	Reddish brown (5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7.1 (pH meter); Abrupt change to -
B2	0.23 - 0.46 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 100-200 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Field pH 7.3 (pH meter); Gradual change to -
B2	0.46 - 0.76 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 100-200 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7.3 (pH meter); Gradual change to -
B3	0.76 - 1.12 m	Reddish brown (5YR4/4-Moist); ; Sandy medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Gradual change to -
C	1.12 - 1.52 m	Strong brown (7.5YR5/6-Moist); ; Coarse sandy clay loam; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
C	1.52 - 1.98 m	Strong brown (7.5YR5/6-Moist); ; Clayey sand; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 8.7 (pH meter);

Morphological Notes

Observation Notes

SUBSTRATE IS PROBABLY RIVERINE ALLUVIUM:

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 - 0.13	6.8H	0.01B	2.8K	0.88	0.26	0.02	1.89D			
0.13 - 0.23	7.1H	0.01B								
0.23 - 0.46	7.3H	0.01B	11.7K	4.1	0.63	0.42	3.2D			
0.46 - 0.76	7.3H	0.01B								
0.76 - 1.12	8.7H	0.05B	14.4K	4.3	0.42	0.21	0D			
1.12 - 1.52	8.8H	0.04B								
1.52 - 1.98	8.7H	0.03B								

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 - 0.13	0C	0.59A	25C	0.017F	0.046B			4	53C	31	6	6
0.13 - 0.23												
0.23 - 0.46		0.25A	4C					0	27C	19	6	48
0.46 - 0.76												
0.76 - 1.12	5.1C							5	28C	26	7	34
1.12 - 1.52												
1.52 - 1.98												

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 - 0.13									
0.13 - 0.23									
0.23 - 0.46									
0.46 - 0.76									
0.76 - 1.12									
1.12 - 1.52									
1.52 - 1.98									

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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