Project Name: COL
Project Code: COL **Site ID:** B460 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell
Date Desc.: 18/04/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.963888888889
Easting/Lat.: -20.8833333333333
Locality:
Elevation: No Data
Rainfall: 686
Runoff: Very slow
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Puw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Clay

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
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: Ug5.24
Great Soil Group: Grey clay

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

Vegetation:

Tall Strata - Tussock grass, , Closed or dense. *Species includes - Astrebla lappacea, Bothriochloa ewartiana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.15 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Dry; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 7.8 (pH meter); Gradual change to -
B2	0.3 - 0.46 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.61 - 0.76 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.91 - 1.07 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; , Lenticular; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.5 (pH meter); Diffuse change to -
B2	1.37 - 1.52 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; , Lenticular; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8 (pH meter); Diffuse change to -
B2	1.68 - 1.78 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; , Lenticular; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Diffuse change to -
B2	2.03 - 2.18 m	Brown (10YR4/3-Moist); ; Heavy clay; , Lenticular; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.3 (pH meter);

Morphological Notes

Observation Notes

0-15CM GRANULAR GRADING TO BLCY STRUCTURE. CRACKS TO 1M DEPTH. CLAY ALLUVIUM CONTINUES BELOW 6M.

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	7.8H	0.04B	36.8K	18	1.1	1	1.7D			
0.3 - 0.46	8.6H	0.08B								
0.61 - 0.76	8.6H	0.18B	26.8K	22.5	0.58	6.7	0D			
0.91 - 1.07	8.5H	0.38B								
1.37 - 1.52	8H	1.13B	22.4K	23.8	0.7	7.1	0D			
1.68 - 1.78	7.8H	2.53B								
2.03 - 2.18	8.3H	0.61B								

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	0.22C	1.1A	80C	0.047F	0.126B				1C	8	20	66
0.3 - 0.46			67C	0.045F								
0.61 - 0.76	0.72C	0.7A			0.079B			0	0.5C	7	19	69
0.91 - 1.07												
1.37 - 1.52	1.9C							0	0.5C	8	23	65
1.68 - 1.78												
2.03 - 2.18			270C	0.064F								

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									
0.3 - 0.46									
0.61 - 0.76									
0.91 - 1.07									
1.37 - 1.52									
1.68 - 1.78									
2.03 - 2.18									

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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