Project Name: **COL**
Project Code: **COL** **Site ID:** **B477** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: R.F. Isbell
Date Desc.: 17/07/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.841666666667
Easting/Lat.: -20.8
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Puw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.5 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: No Data
Aspect: No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous Epipedal Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.16
Great Soil Group: Black earth

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

Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Closed or dense. *Species includes - Astrebla species, Bothriochloa species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Weak consistence; Field pH 8.4 (pH meter); Gradual change to -
B2	0.15 - 0.46 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Gradual change to -
B2	0.46 - 0.76 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.76 - 1.07 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Gradual change to -
B2	1.07 - 1.52 m	Brown (10YR4/3-Moist); ; Heavy clay; , Lenticular; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.4 (pH meter); Gradual change to -
C	1.83 - 2.13 m	Brown (10YR4/3-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.4 (pH meter); Gradual change to -
C	2.74 - 3.05 m	Dark yellowish brown (10YR4/4-Moist); ; Light clay; Massive grade of structure; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.9 (pH

Morphological Notes

Observation Notes

0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE. SOIL CRACKS CLOSELY & DEEPLY (90CM) WHEN DRY:BELOW 107CM CALCAREOUS SEGREGATIONS BOTH SOFT AND NODULAR:

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	28.4K	19.9	0.85	1.1	0D			
0.15 - 0.46	8.8H	0.06B								
0.46 - 0.76	8.6H	0.17B	21.3K	22	0.66	1.2	0D			
0.76 - 1.07	7.8H	0.93B								
1.07 - 1.52	8.4H	0.37B	15.3K	22.2	0.8	0.81	0D			
1.83 - 2.13	8.4H	0.28B								
2.74 - 3.05	8.9H	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	0.07C	0.66A	20C	0.029F	0.071B			0	2C	12	20	64
0.15 - 0.46			18C									
0.46 - 0.76	0.31C	0.53A	20C					0	2C	10	18	67
0.76 - 1.07												
1.07 - 1.52	0.33C		132C	0.05F				0	2C	10	16	71
1.83 - 2.13												
2.74 - 3.05	0.55C		146C	0.035F				0	12C	29	20	38

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 - 0.46									
0.46 - 0.76									
0.76 - 1.07									
1.07 - 1.52									
1.83 - 2.13									
2.74 - 3.05									

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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