

**Project Name:** COL  
**Project Code:** COL      **Site ID:** B442      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	R.F. Isbell	<b>Locality:</b>	
<b>Date Desc.:</b>	16/11/60	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8456 1:100000	<b>Rainfall:</b>	635
<b>Northing/Long.:</b>	147.952777777778	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-20.766666666667	<b>Drainage:</b>	Moderately well drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Cracking

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epicalcareous-Epihypersodic Epipedal Grey Vertosol		<b>Principal Profile Form:</b>	Ug5.28
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Grey clay

All necessary analytical data are available.

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**

Tall Strata - Tree, , Isolated plants. \*Species includes - Acacia harpophylla

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

AB	0 - 0.15 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Weak grade of structure, Granular; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.4 (pH meter); Gradual change to -
B2	0.15 - 0.3 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 7.8 (pH meter); Gradual change to -
B2	0.3 - 0.46 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 7.8 (pH meter); Diffuse change to -
B2	0.91 - 1.07 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter); Diffuse change to -
B2	1.68 - 1.78 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Massive grade of structure; Moist; Firm consistence; Field pH 8.4 (pH meter);

**Morphological Notes**

**Observation Notes**

BANK PROFILE. 0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE.

**Site Notes**

GATTON VALE

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.15	8.4H	0.15B	20.5K	9.1	0.81	1.6	0.4D			
0.15 - 0.3	7.8H	1.3B								
0.3 - 0.46	7.8H	2.03B	17.4K	9.8	0.84	7.1	0D			
0.91 - 1.07	8.3H	0.83B	11K	11.1	1.1	9	0D			
1.68 - 1.78	8.4H	0.86B	10.1K	10.4	1.5	10.9	0D			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15	0.39C	0.7A	26C	0.023F	0.09B				7C	25	16	48
0.15 - 0.3			25C									
0.3 - 0.46	0.47C		23C						4C	21	18	52
0.91 - 1.07												
1.68 - 1.78	0.55C		41C	0.02F					5C	21	18	54

[illegible]

**Project Name:** COL  
**Project Code:** COL      **Site ID:** B442      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**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 (CaCO <sub>3</sub> ) - 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 recorded
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_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