

**Project Name:** COL  
**Project Code:** COL      **Site ID:** B441      **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>	21/11/60	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8456 1:100000	<b>Rainfall:</b>	635
<b>Northing/Long.:</b>	147.894444444444	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-20.763888888889	<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, 1 m deep, Clay

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Terrace (alluvial)
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Sodic Calcic Black Chromosol		<b>Principal Profile Form:</b>	Dd1.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solodic soil
All necessary analytical data are available.			

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

**Vegetation:**

Mid Strata - Shrub, , . \*Species includes - Carissa ovata  
Tall Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eremophila mitchellii

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

**Profile Morphology**

A1	0 - 0.15 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Massive grade of structure; Dry; Weak consistence; Field pH 6.3 (pH meter); Gradual change to -
A2	0.15 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Loam; Massive grade of structure; Dry; Weak consistence; Field pH 6.6 (pH meter); Abrupt change to -
B21	0.2 - 0.46 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; Field pH 7.4 (pH meter); Gradual change to -
B22	0.46 - 0.71 m	Brown (7.5YR5/4-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Gradual change to -
B3	0.71 - 1.12 m	Dark yellowish brown (10YR4/4-Moist); ; Clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.8 (pH meter);

**Morphological Notes**

**Observation Notes**

71-112CM SLIGHTLY MICACEOUS.

**Site Notes**

COLLINSVILLE

**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	6.3H	0.02B	6.3K	3.7	0.47	0.28	5.9D			
0.15 - 0.2	6.6H	0.02B								
0.2 - 0.46	7.4H	0.05B	31.2K	11.8	0.22	2.4	3.6D			
0.46 - 0.71	8.7H	0.18B	23.3K	11	0.8	2.6	0D			
0.71 - 1.12	8.8H	0.23B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15		1E	74C	0.054F	0.093B				0.5C	51	27	18
0.15 - 0.2												
0.2 - 0.46			61C						0.2C	32	22	49
0.46 - 0.71	1.3C								0.2C	40	20	37
0.71 - 1.12	0.6C								0.2C	55	21	23

[illegible]

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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 (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
6Z	Organic carbon (%) - Not recorded
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