Project Name: RR

Project Code: RR Site ID: B571 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

**Site Information** 

Desc. By: G.D. Hubble Locality: See B553 for adjacent shelf profile.

 Date Desc.:
 05/09/66
 Elevation:
 350 metres

 Map Ref.:
 Sheet No.: 9143
 1:100000
 Rainfall:
 635

 Northing/Long.:
 151.3666666666667
 Runoff:
 Rapid

Easting/Lat.: -27.2666666666667 Drainage: Moderately well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Qs Substrate Material: Undisturbed soil core, 1 m

deep, Unconsolidated material

**Land Form** 

Rel/Slope Class:No DataPattern Type:Alluvial fanMorph. Type:No DataRelief:6 metresElem. Type:FanSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AEpicalcareous-Epihypersodic Self-Mulching Grey VertosolPrincipal Profile Form:Ug5.24ASC Confidence:Great Soil Group:Grey clay

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, , Sparse. \*Species includes - Aristida species

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus populnea, Acacia harpophylla, Acacia

omalophylla

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A1 0 - 0.05 m Dark grey (10YR4/1-Moist); ; Medium clay; Strong grade of structure, <2 mm, Granular; Moist; Very weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Common, fine (1-2 mm) roots; Clear change to -

B2 0.05 - 0.1 m Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Common, fine (1-2mm)

roots; Clear change to -

B2 0.1 - 0.2 m Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Moderately plastic; Very few (0 - 2 %),

Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Common, fine (1-2mm) roots; Gradual change to -

B2 0.2 - 0.3 m Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular;

Strong grade of structure, 5-10 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter);

Common, fine (1-2mm) roots; Gradual change to -

B2 0.3 - 0.4 m Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 5-10 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm)

Strong grade of structure, 5-10 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter);

Common, fine (1-2mm) roots; Gradual change to -

B2 0.4 - 0.6 m Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Lenticular;

Strong grade of structure, 2-5 mm, Lenticular; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm),

Nodules; Field pH 8.8 (pH meter); CommonGradual change to -

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0.6 - 0.9 m

Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm),

Nodules; Field pH 8.8 (pH meter); Gradual change to -

B2 0.9 - 1 m

Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm),

Nodules; Field pH 8.8 (pH meter);

### **Morphological Notes**

## **Observation Notes**

PUFF PROFILE:BELOW 10CM CARBONATE INCLUDES SOFT SEGREGATIONS:

#### **Site Notes**

DALBY

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RR Site ID: B57 CSIRO Division of Soils (QLD)

# **Laboratory Test Results:**

Depth	рН			hangeable Cations Mg K		Exchangeable Na Acidity		CEC		ECEC		SP
m		dS/m			K	Cmol (+)/kg					9	6
0 - 0.05	8.6H	0.051B	26.8K	12.9	1	0.77	2D					
0.05 - 0.1	8.6H	0.056B	23K	14.6	0.54	1.6	3.2D					
0.1 - 0.2	8.7H	0.07B	21.8K	17.4	0.35	2.2	1.3D					
0.2 - 0.3	8.7H	0.085B										
0.3 - 0.4	8.8H	0.13B	17K	20.9	0.39	3.6	0.94D					
0.4 - 0.6	8.8H	0.24B										
0.6 - 0.9	8.8H	0.24B	13.5K	24.2	0.5	6.2	0D					
0.9 - 1	8.8H	0.23B										
								_				
Depth	CaCO3	Organic	Avail. P	Total	Total	Total	Bulk			Size A	-	
m	%	C %	mg/kg	P %	N %	K %	Density Mg/m3	GV	cs	FS %	Silt (	Clay
0 - 0.05	1.8C	1.9E	17C	0.029F	:	0.49E	3	2	6C	25	12	54
0.00			18B	0.020.		002		_	• •	_0		٠.
0.05 - 0.1	3.2C	1.1E	2C	0.024F		0.42E	3	5	9C	18	11	57
			8B									
0.1 - 0.2	3.9C	0.76E	5C	0.022F		0.42E	3	2	8C	15	13	60
			7B									
0.2 - 0.3												
0.3 - 0.4	3.5C	0.51E		0.02F		0.43E	3	0	7C	15	14	61
0.4 - 0.6												
0.6 - 0.9	2.8C	0.42E		0.018F	-	0.46E	3	5	6C	14	24	52
0.9 - 1												
Depth	COLE		Gravimetric/Volumetric Water Contents K sat K unsat									
		Sat.	0.05 Bar	0.1 Bar				Bar				
m					g - m3/m3	1 Bar 3		-	mm	/h	mm/h	

0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.9 0.9 - 1

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#### **Laboratory Analyses Completed for this profile**

10A\_NR Total element - S(%) - Not recorded

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
15\_NR\_MG
15\_NR\_MG
15\_NR\_NA
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

17A\_NR Total element - K(%) - 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

6Z Organic carbon (%) - Not recorded 9\_NR Available P (mg/kg) - Not recorded 9A\_NR Total element - P(%) - Not recorded

9G\_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

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