

Project Name: RR
Project Code: RR **Site ID:** B358 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	02/08/58	Elevation:	317 metres
Map Ref.:	Sheet No. : 8644 1:100000	Rainfall:	559
Northing/Long.:	148.675	Runoff:	Moderately rapid
Easting/Lat.:	-26.65	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Klc	Substrate Material:	Auger boring, 0.86 m deep, Shale

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	21 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	3.5 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Endocalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.13
ASC Confidence:		Great Soil Group:	Black earth
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, ,

Profile Morphology

AB	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Field pH 7.2 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
B2	0.08 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 7.7 (pH meter); Gradual change to -
B2	0.3 - 0.51 m	Very dark greyish brown (10YR3/2-Moist); , 10YR55; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 7.5 (pH meter); Gradual change to -
B2	0.51 - 0.66 m	Very dark greyish brown (10YR3/2-Moist); , 10YR55; Heavy clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Shale, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Gypseous, , Crystals; Field pH 7.5 (pH meter); Gradual change to -
BC	0.71 - 0.86 m	Dark yellowish brown (10YR4/6-Moist); , 10YR61; Medium heavy clay; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, Shale, coarse fragments; Few (2 - 10 %), Gypseous, , Crystals; Field pH 7.4 (pH meter); Gradual change to -
C	0.86 - 1.12 m	; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 6.3 (pH meter);

Morphological Notes

C Mottled YB + LG weathered shale:2-10% gypsum crystals

Observation Notes

0-8CM GRANULAR GRADING TO BLOCKY STRUCTURE:

Site Notes

ROMA

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	7.2H	0.03B	25.7K	9.6	1.4	0.67		42.4J		1.58
0.08 - 0.25	7.7H	0.03B								
0.3 - 0.51	7.5H	1.49B			0.58	4		44.7J		8.95
0.51 - 0.66	7.5H	12.5B								
0.71 - 0.86	7.4H	8.71B			0.39	4.7		38.7J		12.14
0.86 - 1.12	6.3H	4.59B								

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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_CEC	CEC - 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 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_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