

Project Name: RR
Project Code: RR **Site ID:** B304 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	30/10/56	Elevation:	305 metres
Map Ref.:	Sheet No. : 9245 1:100000	Rainfall:	762
Northing/Long.:	151.920833333333	Runoff:	Moderately rapid
Easting/Lat.:	-26.25	Drainage:	Moderately well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Rn	Substrate Material:	Existing vertical exposure, 0.91 m deep, Porous, Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	13 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Dr2.22
ASC Confidence:		Great Soil Group:	Red-brown earth
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Chloris species, Bothriochloa decipiens
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus crebra, Eucalyptus moluccana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Brown (10YR4/3-Dry); ; Loam; Moderate grade of structure, 10-20 mm, Polyhedral; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; Field pH 5.7 (pH meter);
B1	0.05 - 0.2 m	Dark reddish grey (5YR4/2-Dry); ; Clay loam; Strong grade of structure, 2-5 mm, Polyhedral; Common (1-5 per 0.01m2) Coarse (>5mm) macropores, Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.1 (pH meter);
B21	0.23 - 0.43 m	Dark red (2.5YR3/5-Dry); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Medium, (5 - 10) mm crack; Dry; Very firm consistence; 2-10%, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 6.4 (pH meter);
B22	0.43 - 0.53 m	Yellowish red (5YR4/5-Dry); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, Substrate material, coarse fragments; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 7.6 (pH meter);
BC	0.53 - 0.91 m	Greyish brown (10YR5/2-Moist); , 7.5YR44, 20-50% , 5-15mm, Distinct; , 10YR66, 20-50% , 5-15mm, Distinct; Light clay (Heavy); Moderate grade of structure, 10-20 mm, Angular blocky; 10-20%, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 7.9 (pH meter);
R	- m	Rock

Morphological Notes

R Sample of P.M. from base of road cut

Observation Notes

BELOW 91CM FEW - COMMON SOFT AND NODULAR CARBONATES

Site Notes

MURGON

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.05	5.7A	0.03C							
0.05 - 0.2	6.1A	0.02C	15.1K	9.7	0.6	0.28		35J	0.80
0.23 - 0.43	6.4A	0.01C	17.2K	16.9	0.28	0.64		41.7J	1.53
0.43 - 0.53	7.6A	0.02C							
0.53 - 0.91	7.9A	0.02C							

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 - 0.05		4.87A	20C	0.158F	0.3B			5	11C	22	30	31
		3.68E		0.069F								
0.05 - 0.2								42	17C	23	24	35
0.23 - 0.43								3	10C	16	20	54
0.43 - 0.53								5	15C	19	21	45
0.53 - 0.91	0.03C							17	14C	25	21	37

[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_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
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
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