

Project Name: RR
Project Code: RR **Site ID:** B303 **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.:	151.925	Runoff:	Moderately rapid
Easting/Lat.:	-26.25	Drainage:	Imperfectly drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Rn	Substrate Material:	Existing vertical exposure, 1.1 m deep, 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
Eutrophic Mottled-Subnatric Brown Sodosol		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	Solodic soil
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 - 0.15 m	Light brownish grey (10YR6/2-Dry); ; Loam; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5.9 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A2	0.18 - 0.24 m	White (10YR8/1-Dry); ; Loam; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6.6 (pH meter); Abrupt change to -
B21	0.24 - 0.41 m	Yellowish brown (10YR5/4-Dry); , 5YR48, 20-50% , 5-15mm, Distinct; , 10YR52, 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.46 - 0.71 m	Yellowish brown (10YR5/4-Dry); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Gradual change to -
B3	0.79 - 0.91 m	Yellowish red (5YR4/6-Dry); , 2.5Y78, 20-50% , 5-15mm, Distinct; , 10YR42, 20-50% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, Angular blocky; Massive grade of structure; Dry; Very firm consistence; 2-10%, Substrate material, coarse fragments; Field pH 8.7 (pH meter);
R	- m	Rock

Morphological Notes

R weathering rock from road cutting

Observation Notes

Site Notes

MURGON

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.15	5.9A	0.02C	3.3K	2.1	0.35	0.24		12.3J	1.95
0.18 - 0.24	6.6A	0.01C							
0.24 - 0.41	6.8A	0.04C	4.8K	11.3	0.21	2.4	20.7J		11.59
0.46 - 0.71	8.5A	0.13C	7.7K	16.7	0.19	5.4	33.5J		16.12
0.79 - 0.91	8.7A	0.1C							

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		1.88A 1.47E	10C	0.099F 0.043F	0.13B				28C	30	20	18
0.18 - 0.24		0.3A						47	33C	30	24	14
0.24 - 0.41		0.42A		0.035F 0.015F	0.05B			2	17C	18	15	48
0.46 - 0.71	0.14C							6	12C	17	13	57
0.79 - 0.91	0.04C							8	28C	26	16	32

[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 (CaCO ₃) - 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