

Project Name: RR
Project Code: RR **Site ID:** B288 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/10/56	Elevation:	30 metres
Map Ref.:	Sheet No. : 8062 1:100000	Rainfall:	0
Northing/Long.:	145.860555555556	Runoff:	Moderately rapid
Easting/Lat.:	-17.904166666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Auger boring, 4 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Dystrophic Red Kandosol		Principal Profile Form:	Gn2.14
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Agathis robusta, Eucalyptus delegatensis

Surface Coarse Fragments: 0-2%, stony, 200-600mm, , Granite

Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Strong grade of structure, 2-5 mm, Granular; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.4 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
A3	0.05 - 0.23 m	Dark red (2.5YR3/6-Moist); ; Clay loam, sandy; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.3 - 0.61 m	Red (2.5YR4/8-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Diffuse change to -
B2	0.76 - 1.37 m	Red (10R4/6-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.4 (pH meter); Diffuse change to -
B2	1.52 - 1.88 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.3 (pH meter); Diffuse change to -
B3	2.13 - 2.74 m	Red (2.5YR4/8-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.3 (pH meter); Diffuse change to -
B3	3.35 - 3.96 m	Red (2.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Diffuse change to -
	4.57 - 5.18 m	Red (2.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Diffuse change to -
	5.56 - 6.17 m	Red (2.5YR4/8-Moist); ; Clay loam; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.1 (pH meter); Diffuse change to -
	7.01 - 7.16 m	Red (2.5YR4/8-Moist); ; Loam; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.1 (pH meter);

Morphological Notes

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0-5CM POROUS GRANULAR

Site Notes

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Observation Notes

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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 - 0.05	5.4H	0.02B								
0.05 - 0.23	5.2H	0.01B	0.05K	0	0.08	0.06	4.9D			
0.3 - 0.61	5.2H	0.01B	0.05K	0	0.02	0.04	2.5D			
0.76 - 1.37	5.4H	0.01B								
1.52 - 1.88	5.3H	0.01B	0.05K	0	0.01	0.03	1D			
2.13 - 2.74	5.3H	0.01B								
3.35 - 3.96	5.2H	0.01B								
4.57 - 5.18	5.2H	0.01B								
5.56 - 6.17	5.1H	0.01B								
7.01 - 7.16	5.1H	0.01B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt Clay
0 - 0.05		2.02A						5	36C	26	8 26
0.05 - 0.23		1.59A	3C	0.049F	0.13B			2	37C	24	5 32
0.3 - 0.61		0.33A									
0.76 - 1.37		0.18A						5	32C	28	9 30
1.52 - 1.88								9	35C	26	8 32
2.13 - 2.74								11	33C	30	13 24
3.35 - 3.96											
4.57 - 5.18								7	28C	30	14 28
5.56 - 6.17											
7.01 - 7.16								14	31C	30	16 21

[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
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
6A1	Organic carbon - Walkley and Black
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