

Project Name: RR
Project Code: RR **Site ID:** B282 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/56	Elevation:	480 metres
Map Ref.:	Sheet No. : 8064 1:100000	Rainfall:	2500
Northing/Long.:	145.856666666667	Runoff:	Moderately rapid
Easting/Lat.:	-16.975	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pgm	Substrate Material:	Auger boring, 3 m deep,Granodiorite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Mountains
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	10.5 %	Aspect:	No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Dystrophic Yellow Kandosol		Principal Profile Form:	Gn2.61
ASC Confidence:		Great Soil Group:	Yellow 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 - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam (Light); Strong grade of structure, 2-5 mm, Polyhedral; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.7 (pH meter); AbundantClear change to -
A12	0.04 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Polyhedral; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); ManyGradual change to -
B21	0.2 - 0.71 m	Brownish yellow (10YR6/7-Moist); , 2.5YR48, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Light clay; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.1 (pH meter); ManyGradual change to -
B22	0.71 - 1.09 m	Brownish yellow (10YR6/7-Moist); , 2.5YR48, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Medium clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 4.4 (pH meter); ManyDiffuse change to -
B3	1.09 - 1.98 m	Red (2.5YR4/7-Moist); , 10YR82, 20-50% , 30-mm, Prominent; , 10YR78, 20-50% , 30-mm, Prominent; Medium clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 4.6 (pH meter); CommonDiffuse change to -
B3	2.69 - 3.05 m	White (10YR8/2-Moist); , 10YR78, 20-50% , 15-30mm, Prominent; , 2.5YR58, 20-50% , 15-30mm, Prominent; Light clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5 (pH meter);

Morphological Notes

Observation Notes

B HORIZONS MAY HAVE MODERATE STRUCTURE (Gn3):HIGHLY SILTY

Site 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 - 0.04	5.7H	0.02B								
0.04 - 0.2	5.2H	0.02B	0.3K	0.24	0.13	0.06	5.8D			
0.2 - 0.71	5.1H	0.01B								
0.71 - 1.09	4.4H	0.01B	0.05K	0	0.04	0.04	4.5D			
1.09 - 1.98	4.6H	0.01B								
2.69 - 3.05	5H	0.01B	0.05K	0	0.04	0.05	7.2D			

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 - 0.04		2.45A	13C					10	48C	16	10	22
0.04 - 0.2		1.55A		0.038F	0.13B			14	48C	15	11	23
0.2 - 0.71								15	37C	16	14	33
0.71 - 1.09								6	31C	13	22	36
1.09 - 1.98								5	27C	11	31	32
2.69 - 3.05								8	25C	15	38	22

[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