

Project Name: RR
Project Code: RR **Site ID:** B280 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/56	Elevation:	500 metres
Map Ref.:	Sheet No. : 8064 1:100000	Rainfall:	2500
Northing/Long.:	145.8575	Runoff:	Moderately rapid
Easting/Lat.:	-16.979722222222	Drainage:	Well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pgm	Substrate Material:	Existing vertical exposure, 1.8 m deep, Granodiorite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Mountains
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	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 Mesotrophic Red Kandosol		Principal Profile Form:	Gn2.14
ASC Confidence:		Great Soil Group:	Red earth

Analytical data are incomplete but reasonable confidence.

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

Vegetation:

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Reddish brown (5YR4/4-Dry); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.5 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
A3	0.04 - 0.27 m	Yellowish red (5YR4/5-Dry); ; Clay loam (Heavy); Moderate grade of structure, 10-20 mm, Polyhedral; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.1 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B11	0.28 - 0.48 m	Red (2.5YR5/8-Moist); ; Medium clay; Weak grade of structure, Polyhedral; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.3 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B12	0.48 - 0.69 m	Red (2.5YR4/8-Moist); ; Medium clay; Weak grade of structure, Polyhedral; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.3 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B21	0.69 - 1.14 m	Red (2.5YR4/8-Moist); ; Light clay; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B22	1.14 - 1.47 m	Red (2.5YR5/8-Moist); ; Clay loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B3	1.47 - 1.77 m	Red (2.5YR4/8-Moist); ; Clay loam; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.1 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.04	5.5H	0.04B								
0.04 - 0.27	5.1H	0.02B								
0.28 - 0.48	5.3H	0.01B								
0.48 - 0.69	5.3H	0.01B								
0.69 - 1.14	5.2H	0.01B								
1.14 - 1.47	5.2H	0.01B								
1.47 - 1.77	5.1H	0.01B								

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			6C	0.034F			1.00	7	51C	12	15	20
0.04 - 0.27				0.024F			1.30	13	46C	13	16	27
0.28 - 0.48		0.7A		0.022F			1.40	9	35C	11	12	38
0.48 - 0.69				0.022F			1.40	11	39C	11	14	35
0.69 - 1.14				0.002F			1.40					
1.14 - 1.47				0.021F			1.40	13	50C	15	12	23
1.47 - 1.77				0.037F			1.50	12	36C	21	21	24

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m				g/g -		m3/m3			mm/h
									mm/h
0 - 0.04				0.23C				0.19C	
0.04 - 0.27				0.28C				0.22C	
0.28 - 0.48				0.32C				0.24C	
0.48 - 0.69				0.33C				0.26C	
0.69 - 1.14				0.32C				0.26C	
1.14 - 1.47				0.3C				0.23C	
1.47 - 1.77				0.3C				0.22C	

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Laboratory Analyses Completed for this profile

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
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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m3/m3 - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m3/m3 - Volumetric using pressure plate