

Project Name: RR
Project Code: RR **Site ID:** B293 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	15/10/56	Elevation:	No Data
Map Ref.:	Sheet No. : 8159 1:100000	Rainfall:	1016
Northing/Long.:	146.45	Runoff:	Moderately rapid
Easting/Lat.:	-19.3694444444445	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cpb	Substrate Material:	Soil pit, 0.91 m deep,Porous, Syenite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	7 %	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: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - Bothriochloa decipiens
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus polycarpa, Eucalyptus papuana

Surface Coarse Fragments: 0-2%, bouldery, 600mm-2m, , Igneous rock (unidentified)

Profile Morphology

A1	0 - 0.08 m	Dark reddish brown (5YR3/2-Moist); ; Loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Field pH 6.3 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
B21	0.15 - 0.36 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 6.2 (pH meter); Gradual change to -
B22	0.41 - 0.53 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.8 (pH meter); Gradual change to -
B23	0.53 - 0.76 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; Field pH 7.2 (pH meter); Diffuse change to -
B3	0.76 - 0.91 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Weak grade of structure, Angular blocky; Moist; Weak consistence; Field pH 7.3 (pH meter); Diffuse change to -
C	0.91 - 1.07 m	; Field pH 7.2 (pH meter);

Morphological Notes

C Mottled white + reddish brown + grey,mealy weathered rock:

Observation Notes

8-15CM A2 HORIZON DISCARDED:RED BROWN EARTH NORTHERN SUB GROUP KAOLIN CLAYS:

Site Notes

MINGELA

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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 - 0.08	6.3H	0.01B	6.3K	2	0.43	0.09	3.6D			
0.15 - 0.36	6.2H	0.01B	8.7K	5	0.21	0.18	5.3D			
0.41 - 0.53	6.8H	0.01B								
0.53 - 0.76	7.2H	0.01B								
0.76 - 0.91	7.3H	0.01B								
0.91 - 1.07	7.2H	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 - 0.08		1.26E	8C	0.045F	0.09B			0	26C	33	10	15
0.15 - 0.36		0.65E						0	13C	11	8	65
0.41 - 0.53								0	14C	18	13	54
0.53 - 0.76								0	16C	27	15	39
0.76 - 0.91												
0.91 - 1.07								0	35C	41	14	13

[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
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