Project Name: RR
Project Code: RR **Site ID:** B291 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 14/10/56
Map Ref.: Sheet No. : 8159 1:100000
Northing/Long.: 146.458055555556
Easting/Lat.: -19.35
Locality:
Elevation: 366 metres
Rainfall: 1092
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Cpg
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.3 m deep,Granodiorite

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Crest
Elem. Type: Hillslope
Slope: 8 %
Pattern Type: Rises
Relief: 30 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Eutrophic Yellow Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.42
Great Soil Group: No suitable group

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Dichanthium sericeum

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus polycarpa

Surface Coarse Fragments: 2-10%, bouldery, 600mm-2m, , Granodiorite

Profile Morphology

A1	0 - 0.14 m	Very dark brown (10YR2/2-Moist); ; Loamy coarse sand; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; Field pH 6.3 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A2	0.14 - 0.25 m	Light yellowish brown (10YR6/4-Moist); ; Loamy coarse sand; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots; Clear change to -
B2	0.27 - 0.39 m	Brownish yellow (10YR6/6-Moist); , 7.5YR56; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.2 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.39 - 0.53 m	Brownish yellow (10YR6/6-Moist); , 7.5YR56; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.3 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B3C	0.61 - 0.91 m	Strong brown (7.5YR5/8-Moist); , 2.5Y58; Clay loam, coarse sandy; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.6 (pH meter); Diffuse change to -
B3C	0.91 - 1.17 m	Strong brown (7.5YR5/8-Moist); , 2.5Y58; Clay loam, coarse sandy; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7.3 (pH meter); Diffuse change to -
C	1.37 - 1.83 m	White (10YR8/1-Moist); , 2.5Y56; , 7.5YR54; Loamy coarse sand; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7.1 (pH meter); Diffuse change to -
C	2.13 - 2.59 m	White (10YR8/1-Moist); , 2.5Y56; , 2.5Y52; Loamy coarse sand; Massive grade of structure; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7.3 (pH meter);
C	2.59 - 3.05 m	;

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C 3.51 - 3.86 m ;

R - m Rock

Morphological Notes

R Rock sample taken adjacent to profile

Observation Notes

TENDING RED BROWN EARTH NORTHERN SUB GROUP, YELLOW BROWN SUBSOIL

Site Notes

HARVEY RANGE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.14	6.3H	0.01B	1.55K	0.64	0.15	0.05	1.7D			
0.14 - 0.25	6.2H	0.01B								
0.27 - 0.39	6.2H	0.01B	4.38K	2.47	0.28	0.09	2.7D			
0.39 - 0.53	6.3H	0.01B								
0.61 - 0.91	6.6H	0.01B								
0.91 - 1.17	7.3H	0.02B								
1.37 - 1.83	7.1H	0.01B								
2.13 - 2.59	7.3H	0.01B								
2.59 - 3.05	7.3H	0.01B								
3.51 - 3.86	7.2H	0.01B								
-										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.14		0.69A	4C	0.016F	0.04B			0	50C	35	8	3
0.14 - 0.25		0.25A						9	43C	38	9	11
0.27 - 0.39		0.26A		0.025F	0.03B			9	32C	24	10	36
0.39 - 0.53								11	32C	21	12	34
0.61 - 0.91												
0.91 - 1.17								11	40C	26	8	25
1.37 - 1.83												
2.13 - 2.59								27	63C	27	5	6
2.59 - 3.05								32				
3.51 - 3.86								37.5				
-												

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 - 0.14									
0.14 - 0.25									
0.27 - 0.39									
0.39 - 0.53									
0.61 - 0.91									
0.91 - 1.17									
1.37 - 1.83									
2.13 - 2.59									
2.59 - 3.05									
3.51 - 3.86									
-									

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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 recordede
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