Project Name: RR
Project Code: RR **Site ID:** B270 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 05/10/55
Map Ref.: Sheet No. : 9144 1:100000
Northing/Long.: 151.281944444444
Easting/Lat.: -26.6930555555556
Locality:
Elevation: No Data
Rainfall: 686
Runoff: Moderately rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Vertic Hypernatric Black Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Db1.33
Great Soil Group: Solodic soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus populnea

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.14 m	Brown (7.5YR4/2-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.4 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
B21	0.16 - 0.38 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated; Field pH 7.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.41 - 0.56 m	Brown (10YR4/3-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B23	0.61 - 1.07 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 9.1 (pH meter); Diffuse change to -
BC	1.07 - 1.68 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Weak grade of structure, Angular blocky; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.14	6.4H	0.01B	6K	3.5	0.86	0.39	10.2D			
0.16 - 0.38	7.8H	0.06B	7K	10.5	0.3	3.6	5.8D			
0.41 - 0.56	8.8H	0.18B								
0.61 - 1.07	9.1H	0.41B	4.9K	11.5	0.43	7.4				
1.07 - 1.68	9H	0.29B								

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		1.42A	27C	0.082F	0.12B			0	22C	42	11	24
0.16 - 0.38		0.83A			0.092B			0	13C	26	6	54
0.41 - 0.56	0.13C	0.49A		0.053F	0.065B							
0.61 - 1.07	6.67C	0.15A			0.026B			0	13C	23	8	49
1.07 - 1.68	0.27C		2C					0	25C	20	7	47

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										
0.16 - 0.38										
0.41 - 0.56										
0.61 - 1.07										
1.07 - 1.68										

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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
19B_NR	Calcium Carbonate (CaCO3) - 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