Project Name: WQR
Project Code: WQR **Site ID:** B148 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/08/51
Map Ref.: Sheet No. : 6855 1:100000
Northing/Long.: 139.927777777778
Easting/Lat.: -21.0055555555556
Locality:
Elevation: 204 metres
Rainfall: 400
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Existing vertical exposure, 1.6 m deep,Slightly porous, Metamorphic rock (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Low hills
Relief: 60 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion: Minor (gully)

Soil Classification

Australian Soil Classification:
Calcic Mesonatric Red Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr2.33
Great Soil Group: Red-brown earth

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

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - Triodia pungens

Tall Strata - Tree, , Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, , Quartz

Profile Morphology

A11	0 - 0.1 m	Reddish brown (5YR4/4-Moist); ; Loam (Light); Massive grade of structure; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Field pH 7.1 (pH meter); Clear change to -
A12	0.1 - 0.25 m	Reddish brown (5YR4/4-Moist); ; Loam (Heavy); Massive grade of structure; Dry; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Clear change to -
A2	0.25 - 0.28 m	Reddish brown (5YR5/3-Moist); ; Loam (Heavy); Massive grade of structure; Dry; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Sharp change to -
B21	0.28 - 0.69 m	Dark red (10R3/6-Moist); ; Heavy clay; Weak grade of structure, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 6.8 (pH meter); Gradual change to -
B22	0.69 - 1.07 m	Dark red (10R3/6-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Gradual change
BC	1.07 - 1.52 m	Dark red (2.5YR3/6-Moist); , 10YR62; Light medium clay; Weak grade of structure, Angular blocky; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

Site Notes

CLONCURRY

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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 - 0.1	7.1H	0.02B	4K	3.5	0.43	0.14	2.07D		10.1E	
0.28 - 0.69	6.8H	0.34B	5.7K	9.4	0.25	0	2.18D		17.5E	
0.69 - 1.07	9H	0.2B	4.3K	7.7	0.25	2.4			14.6E	

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 - 0.1		0.53E	4C	0.015F	0.032B			3	31C	41	7	22
0.28 - 0.69								3	17C	28	7	51
0.69 - 1.07	5.93C							2	17C	27	7	45

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 - 0.1									
0.28 - 0.69									
0.69 - 1.07									

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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
2_LOI	Loss on Ignition (%)
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
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