Project Name: WQA
Project Code: WQA **Site ID:** B636 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/09/69
Map Ref.: Sheet No. : 7844 1:100000
Northing/Long.: 144.675
Easting/Lat.: -26.8638888888889
Locality:
Elevation: 210 metres
Rainfall: 400
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: Kw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Mesotrophic Red Kandosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Gn2.11
Great Soil Group: Red earth

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Tall Strata - Tree, , Sparse. *Species includes - Acacia aneura

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, , Substrate material

Profile Morphology

A1	0 - 0.1 m	Red (2.5YR4/5-Moist); ; Loam; Massive grade of structure; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.1 - 0.2 m	Red (2.5YR5/6-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Firm consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.2 - 0.3 m	Red (2.5YR5/6-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.3 - 0.45 m	Red (2.5YR5/6-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Gradual change to -
	0.45 - 0.6 m	Red (2.5YR5/6-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Firm consistence; 50-90%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Gradual change to -
	0.6 - 0.72 m	Reddish yellow (5YR6/6-Dry); , 10YR72, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Light clay; Massive grade of structure; Firm consistence; 50-90%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Gradual change to -
	0.72 - 0.8 m	Dark brown (10YR3/3-Dry); ; Light clay; Massive grade of structure; Firm consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Other pans; Clear change to -
	0.8 - 0.9 m	Light red (2.5YR6/6-Dry); , 10YR64, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Massive grade of structure; Very strong consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans; Clear change to -
	0.9 - 1 m	Light red (2.5YR6/6-Dry); , 10YR63, 20-50% , 0-5mm, Prominent; , 2.5Y62, 20-50% , 0-5mm, Prominent; Massive grade of structure; Very strong consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

Site Notes

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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	4.8H	0.03B	1.3K	0.81	0.91	0.13	7.8D			
0.1 - 0.2	4.4H	0.12B								
0.2 - 0.3	4.2H	0.17B								
0.3 - 0.45	4.5H	0.16B								
0.45 - 0.6	4.8H	0.12B								
0.6 - 0.72	5.2H	0.08B								
0.72 - 0.8	5.9H	0.14B								
0.8 - 0.9	6.3H	0.15B								
0.9 - 1	6.4H	0.11B	18.7K	6	0.57	3.4	0D			

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		0.42A	13B	0.028F	0.042B	0.38B			22C	36	12	30
0.1 - 0.2		0.32A			0.045B							
0.2 - 0.3		0.26A			0.042B							
0.3 - 0.45		0.23A		0.023F	0.044B	0.42B			18C	35	9	35
0.45 - 0.6												
0.6 - 0.72		0.12A		0.02F	0.026B	0.32B			25C	38	11	24
0.72 - 0.8		0.12A							20C	28	11	40
0.8 - 0.9												
0.9 - 1		0.07A		0.014F	0.019B	0.4B			53C	31	9	6

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									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.45									
0.45 - 0.6									
0.6 - 0.72									
0.72 - 0.8									
0.8 - 0.9									
0.9 - 1									

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - 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
17A_NR	Total element - K(%) - 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
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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