

Project Name: WQA
Project Code: WQA **Site ID:** B634 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	200 metres
Map Ref.:	Sheet No. : 7744 1:100000	Rainfall:	345
Northing/Long.:	144.338888888889	Runoff:	Slow
Easting/Lat.:	-26.669444444445	Drainage:	Moderately well drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Manganic Eutrophic Red Kandosol		Principal Profile Form:	Gn2.13
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

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

Vegetation:

Mid Strata - Shrub, , . *Species includes - Acacia species

Tall Strata - Tree, , Sparse. *Species includes - Acacia aneura, Eucalyptus species, Grevillea striata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Yellowish red (5YR4/6-Moist); ; Loamy sand (Heavy); Massive grade of structure; Dry; Very weak consistence; Gradual change to -
A12	0.1 - 0.2 m	Red (2.5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Gradual change to -
B2	0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence;
B2	0.3 - 0.6 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm
B2	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
B2	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B2	1.2 - 1.5 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B2	1.5 - 1.65 m	Red (2.5YR4/6-Moist); , 10YR76, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Many (20 - 50 %), Manganiferous, , Nodules; Gradual change to -
B2	1.65 - 1.8 m	Yellow (10YR8/6-Moist); , 2.5YR58, 20-50% , 5-15mm, Prominent; , 10YR82, 20-50% , 5-15mm, Prominent; Sandy medium clay (Light); Massive grade of structure; Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;
B2	1.8 - 2 m	Yellow (10YR8/6-Moist); , 2.5YR58, 20-50% , 0-5mm, Prominent; , 10YR82, 20-50% , 0-5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

Observation Notes

Site Notes

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QUILPIE

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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 - 0.1	6.5H	0.009B								
0.1 - 0.2	7.3H	0.014B								
0.2 - 0.3	8H	0.034B								
0.3 - 0.6	8.4H	0.088B	3K	2.8	0.41	3.9	0.57D			
0.6 - 0.9	8.8H	0.17B								
0.9 - 1.2	8.4H	0.25B								
1.2 - 1.5	7.5H	1.1B								
1.5 - 1.65	7.6H	0.75B								
1.65 - 1.8	8.1H	0.37B								
1.8 - 2	8.2H	0.48B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt Clay
0 - 0.1		0.22A	7B	0.021F	0.018B	0.29B			43C	42	7 8
0.1 - 0.2											
0.2 - 0.3	0.01C										
0.3 - 0.6	0.05C			0.026F		0.54B			28C	38	11 23
0.6 - 0.9	0.05C										
0.9 - 1.2	0C	0.04A		0.022F	0.015B	0.6B			27C	39	20 12
1.2 - 1.5											
1.5 - 1.65											
1.65 - 1.8	0.02C										
1.8 - 2	0.03C								29C	27	11 30

[illegible]

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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
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 recorded
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