

Project Name: WQA
Project Code: WQA **Site ID:** B627 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	195 metres
Map Ref.:	Sheet No. : 7547 1:100000	Rainfall:	293
Northing/Long.:	148.375	Runoff:	Moderately rapid
Easting/Lat.:	-25.7888888888889	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tg	Substrate Material:	Auger boring, 1.1 m deep, No Data

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Plateau
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Kandosol		Principal Profile Form:	Gn2.22
ASC Confidence:		Great Soil Group:	Yellow earth

All necessary analytical data are available.

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

Vegetation:

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia aneura, Eucalyptus species, Acacia species

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, rounded, Gravel

Profile Morphology

A1	0 - 0.1 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; 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 (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Weak consistence; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Weak consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Gradual change to -
	0.6 - 0.7 m	Reddish yellow (5YR6/6-Dry); ; Clay loam; Massive grade of structure; Earthy fabric; Weak consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Gradual change to -
	0.7 - 0.9 m	Yellowish brown (10YR5/8-Moist); Brownish yellow (10YR6/8-Dry); ; Light clay; Weak grade of structure, Polyhedral; Firm consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Gradual change to -
	0.9 - 1.1 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay; Weak grade of structure, Polyhedral; Firm consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
C	1.1 - 1.15 m	; 10-20%, Substrate material, coarse fragments;

Morphological Notes

C Mottled yellowish white and light red weathered rock.

Observation Notes

Site Notes

LYNWOOD

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
			Ca	Mg	K					
0 - 0.1	6.4H	0.009B	2.4K	0.9	0.81	0.07	2.4D			
0.1 - 0.2	5.4H	0.012B								
0.2 - 0.3	5H	0.01B	2K	0.63	0.45	0.13	4D			
0.3 - 0.6	5.5H	0.008B								
0.6 - 0.7	6.2H	0.014B	3.2K	3	0.12	0.41	3.9D			
0.7 - 0.9	6.8H	0.035B	4.4K	5.8	0.14	0.94	3.8D			
0.9 - 1.1	7.9H	0.054B								
1.1 - 1.15	7.4H	0.034B								

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		0.26A	4B	0.027F	0.028B	0.31B				26C	49	6	19
0.1 - 0.2		0.2A		0.025F	0.033B	0.29B				25C	46	6	23
0.2 - 0.3		0.19A	2B	0.026F	0.033B	0.32B				23C	45	4	28
0.3 - 0.6		0.18A		0.025F	0.03B	0.28B				24C	43	6	27
0.6 - 0.7		0.13A		0.024F	0.026B	0.27B				20C	36	6	38
0.7 - 0.9		0.13A		0.02F	0.019B	0.27B				18C	30	8	43
0.9 - 1.1	0C	0.08A		0.016F	0.016B	0.28B				11C	33	8	48
1.1 - 1.15										33C	33	10	24

[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
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Ill	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction