

Project Name: WQA
Project Code: WQA **Site ID:** B620 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	125 metres
Map Ref.:	Sheet No. : 7347 1:100000	Rainfall:	278
Northing/Long.:	142.247222222222	Runoff:	No Data
Easting/Lat.:	-25.330555555556	Drainage:	No Data

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Auger boring, 0.3 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Brown Vertosol		Principal Profile Form:	Ug5.2

ASC Confidence:

No analytical data are available but confidence is fair.

Great Soil Group: Grey clay

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Greyish brown (10YR5/2-Moist); ; Medium clay; Strong grade of structure, Granular; Dry; Loose consistence; Clear change to -
B2	0.05 - 0.1 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Medium clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.1 - 0.2 m	Brown (10YR5/3-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; Gradual change to -
C	0.3 - 0.6 m	Light yellowish brown (10YR6/4-Dry); ; Sandy medium clay (Light); Massive grade of structure; Dry; Very firm consistence; Gradual change to -
	0.6 - 0.9 m	Light yellowish brown (10YR6/4-Dry); ; Sandy clay loam; Massive grade of structure; Firm consistence; Gradual change to -
	0.9 - 1.2 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); ; Sandy loam; Massive grade of structure; Firm consistence; Gradual change to -
	1.2 - 1.4 m	Light yellowish brown (10YR6/4-Moist); ; Clayey sand; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Clear change to -
	1.4 - 1.5 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Gradual change to -
	1.5 - 1.75 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations;

Morphological Notes

Observation Notes

TREELESS PLAIN WITH CLAYPAN AFFINITIES: 30-140 CM ALLUVIAL LAYERING.

Site Notes

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WHITULA CREEK

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.02	7H	0.019B							
0.05 - 0.1	7.1H	0.015B							
0.1 - 0.2	7.3H	0.026B							
0.2 - 0.3	7.7H	0.058B	10.4K	7.6	1	2.1	2.6D		
0.3 - 0.6	8.7H	0.083B							
0.6 - 0.9	8.6H	0.14B							
0.9 - 1.2	8H	0.16B							
1.2 - 1.4	7.9H	0.24B							
1.4 - 1.5	7.9H	0.6B							
1.5 - 1.75	8H	0.71B							

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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_II	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