Project Name: WQA
Project Code: WQA **Site ID:** B608 **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. : 6948 1:100000
Northing/Long.: 140.644444444444
Easting/Lat.: -24.8916666666667
Locality:
Elevation: 65 metres
Rainfall: 221
Runoff: Slow
Drainage: Poorly drained

Geology

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

Land Form

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

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Episodic Self-Mulching Brown Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.24
Great Soil Group: Grey clay

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Medium heavy clay; Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Gravel, coarse fragments; Field pH 7.8 (pH meter); Clear change to -
B2	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Field pH 6.9 (pH meter); Gradual change to -
B2	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7 (pH meter); Gradual change to -
B2	0.3 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; , Lenticular; Moderately moist; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7 (pH meter); Gradual
B2	0.6 - 0.9 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; , Lenticular; Moderately moist; Very firm consistence; Field pH 6.9 (pH meter); Gradual change to -
B2	0.9 - 1.2 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; , Lenticular; Moderately moist; Very firm consistence; Field pH 6.8 (pH meter); Gradual change to -
B2	1.2 - 1.5 m	Brownish yellow (10YR6/5-Moist); Yellow (10YR7/5-Dry); ; Medium clay; , Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.1 (pH meter); Gradual change to -
B2	1.5 - 1.8 m	Brownish yellow (10YR6/5-Moist); ; Medium clay; , Lenticular; Moist; Firm consistence; Field pH 7.5 (pH meter); Gradual change to -
B2	1.8 - 2 m	Brownish yellow (10YR6/5-Moist); ; Medium clay; , Lenticular; Moist; Firm consistence; Field pH 7.7 (pH meter); Gradual change to -

Morphological Notes

Observation Notes

VEGETATION ? HERBLAND - NO LIVING VEGETATION AT TIME OF SAMPLING.

Site Notes

MONKIRA

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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	7.8H	0.047B	18.7K	5	1.4	1.7	1.1D			
0.1 - 0.2	6.9H	0.5B								
0.2 - 0.3	7H	0.86B	17.4K	4.6	1	3.2	1.6D			
0.3 - 0.6	7H	1.2B								
0.6 - 0.9	6.9H	1.3B								
0.9 - 1.2	6.8H	1.3B								
1.2 - 1.5	7.1H	1.5B								
1.5 - 1.8	7.5H	1.2B								
1.8 - 2	7.7H	3.5B								

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	0.02C	0.17A	108B	0.047F	0.021B	0.95B			2C	34	15	47
0.1 - 0.2		0.17A										
0.2 - 0.3		0.14A	106B						1C	34	15	50
0.3 - 0.6		0.1A			0.024B							
0.6 - 0.9									2C	33	15	48
0.9 - 1.2		0.04A		0.045F	0.014B	0.85B						
1.2 - 1.5												
1.5 - 1.8												
1.8 - 2	0.02C	0.03A	121B	0.044F	0.011B	0.86B			2C	39	10	48

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 - 0.6									
0.6 - 0.9									
0.9 - 1.2									
1.2 - 1.5									
1.5 - 1.8									
1.8 - 2									

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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
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
XRD_C_Il	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