

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B586      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	01/09/69	<b>Elevation:</b>	90 metres
<b>Map Ref.:</b>	Sheet No. : 6650    1:100000	<b>Rainfall:</b>	203
<b>Northing/Long.:</b>	138.575	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-23.859722222222	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Cza	<b>Substrate Material:</b>	Auger boring, 1.5 m deep,Mudstone

**Land Form**

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

**Surface Soil Condition (dry):** Surface crust, Cracking

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Episodic Epipedal Brown Vertosol		<b>Principal Profile Form:</b>	Ug5.35
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Brown clay
All necessary analytical data are available.			

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

**Vegetation:**

Tall Strata - Shrub, 0.26-0.5m, Isolated plants. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A	0 - 0.1 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Firm consistence;
B2	0.1 - 0.2 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Firm consistence;
B2	0.2 - 0.3 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.3 - 0.45 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; , Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals; Gradual change to -
D	0.45 - 0.6 m	Grey (5Y5/1-Moist); ; Medium heavy clay; Moist; Weak consistence; Very few (0 - 2 %), Gypseous, , Crystals;
D	0.6 - 0.7 m	Grey (5Y5/1-Moist); ; Light medium clay; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
D	0.7 - 0.9 m	Grey (5Y5/1-Moist); Grey (5Y5/1-Dry); ; Light medium clay; Dry; Very firm consistence; Few (2 - 10 %), Gypseous, , Crystals;
D	0.9 - 1.2 m	Grey (5Y5/1-Dry); ; Light medium clay; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
D	1.2 - 1.5 m	Grey (5Y5/1-Dry); ; Light medium clay; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
D	1.5 - 1.8 m	;

**Morphological Notes**

D DG(5Y5/1) weathered mudstone.

**Observation Notes**

SURFACE CRUST 0-3CM.

**Site Notes**

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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	7.5H	2B	8.2K	12.5	2	17.5	0D			
0.1 - 0.2	7.1H	7B								
0.2 - 0.3	6.8H	14.7B								
0.3 - 0.45	6.7H	13.3B								
0.45 - 0.6	6.7H	10.4B								
0.6 - 0.7	6H	9.2B								
0.7 - 0.9	6.6H	16.4B								
0.9 - 1.2	6.2H	8B								
1.2 - 1.5	5.9H	9B								
1.5 - 1.8	8.1H	11.2B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0.03C								7C	20	7	63
0.1 - 0.2												
0.2 - 0.3									4C	14	9	66
0.3 - 0.45												
0.45 - 0.6									4C	13	21	61
0.6 - 0.7									3C	24	20	42
0.7 - 0.9												
0.9 - 1.2												
1.2 - 1.5	0.05C								1C	18	24	57
1.5 - 1.8	7C								1C	41	17	22

[illegible]

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**Laboratory Analyses Completed for this profile**

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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
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_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction