

Project Name: WQA
Project Code: WQA **Site ID:** B587 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	82 metres
Map Ref.:	Sheet No. : 6650 1:100000	Rainfall:	203
Northing/Long.:	138.693055555556	Runoff:	No runoff
Easting/Lat.:	-23.916666666667	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	Auger boring, Clay

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	3 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Gypsic Epipedal Brown Vertosol		Principal Profile Form:	Ug5.24
ASC Confidence:		Great Soil Group:	Grey clay

All necessary analytical data are available.

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

Vegetation:

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subrounded, Substrate material

Profile Morphology

	0 - 0.1 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, <2 mm, Angular blocky; Firm consistence;
	0.1 - 0.2 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Weak grade of structure, Angular blocky; Firm consistence;
	0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Weak grade of structure, Angular blocky; Firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Gradual change to -
	0.3 - 0.6 m	Brownish yellow (10YR6/5-Dry); ; Sandy medium clay; , Angular blocky; Firm consistence; Many (20 - 50 %), Gypseous, Coarse (6 - 20 mm), Crystals;
	0.6 - 0.9 m	Yellowish brown (10YR5/4-Moist); , 5Y62, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy medium clay; , Angular blocky; Firm consistence; Many (20 - 50 %), Gypseous, Coarse (6 - 20 mm), Crystals;
	0.9 - 1.2 m	Yellowish brown (10YR5/4-Moist); , 2.5Y42, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; , Angular blocky; Firm consistence; Few (2 - 10 %), Gypseous, Coarse (6 - 20 mm), Crystals; Diffuse change to -
C	1.2 - 1.5 m	Light yellowish brown (10YR6/4-Moist); , 5Y41, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; Moist; Firm consistence; Very few (0 - 2 %), Gypseous, Medium (2 - 6 mm), Crystals;
C	1.5 - 1.8 m	Light yellowish brown (10YR6/4-Moist); , 5Y41, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; Moist; Firm consistence;

Morphological Notes

Observation Notes

SALINE GREY CLAY; BROAD BARE CLAYPAN AREA: SURFACE WHITISH "SKIN" 1MM THICK WITH BROWN CLAY PED 'CEMENTED' IN UNDER SURFACE: 1.2-1.8M SOME MUDSTONE FABRIC:

Site Notes

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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 Cmol (+)/kg	Acidity		%
0 - 0.1	6.7H	2.4B	3.7K	9.5	1.1	11.9	0D		
0.1 - 0.2	6.7H	7.5B							
0.2 - 0.3	6.8H	11.4B							
0.3 - 0.6	7.4H	31.7B							
0.6 - 0.9	7.6H	29.8B							
0.9 - 1.2	7.6H	12.7B							
1.2 - 1.5	7.6H	7.6B							
1.5 - 1.8	7.7H	6B							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density	Particle		Size	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		FS %	Silt
m							Mg/m3					
0 - 0.1		0.1E	73B	0.035F	0.026B	1.25B			8C	32	14	42
0.1 - 0.2		0.1E		0.027F	0.019B	1.2B			10C	32	10	39
0.2 - 0.3		0.06E	53B	0.025F	0.016B	0.95B			12C	29	9	39
0.3 - 0.6		0.03E		0.027F	0.008B	0.62B			25C	17	5	23
0.6 - 0.9		0.03E		0.023F	0.016B	0.52B						
0.9 - 1.2	0C	0.04E			0.025B				22C	18	18	30
1.2 - 1.5	0.03C	0.13E	44B		0.061B							
1.5 - 1.8	0.04C	0.16E			0.054B				1C	29	29	54

[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 (%)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
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