

Project Name: WQA
Project Code: WQA **Site ID:** B592 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	93 metres
Map Ref.:	Sheet No. : 6749 1:100000	Rainfall:	203
Northing/Long.:	139.325	Runoff:	Slow
Easting/Lat.:	-24.2166666666667	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	Auger boring, 2 m deep, Clay

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	1 metres
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous-Endohypersodic Crusty Red Vertosol		Principal Profile Form:	Ug5.35
ASC Confidence:		Great Soil Group:	Brown clay
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Forb, <0.25m, Very sparse. *Species includes - None Recorded

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

Profile Morphology

A1	0 - 0.1 m	Yellowish red (5YR5/5-Moist); Reddish yellow (5YR6/5-Dry); ; Light medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Dry; Loose consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Clear change to -
B2	0.1 - 0.2 m	Reddish brown (5YR5/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Gradual change to -
B2	0.2 - 0.3 m	Reddish brown (5YR5/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Gradual change to -
B2	0.3 - 0.6 m	Strong brown (7.5YR5/5-Moist); Reddish yellow (7.5YR6/5-Dry); ; Medium heavy clay; Moderate grade of structure, Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Gradual change to -
B2	0.6 - 0.9 m	Strong brown (7.5YR5/5-Moist); ; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Gradual change to -
B2	0.9 - 1.08 m	Strong brown (7.5YR5/5-Moist); ; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Gradual change to -
B2	1.08 - 1.2 m	Strong brown (7.5YR5/8-Moist); , 10YR72, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Gradual change to -
B2	1.2 - 1.5 m	Pale yellow (2.5Y7/3-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 2.5YR66, 20-50% , 5-15mm, Distinct; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals; Diffuse change to -
B2	1.5 - 1.8 m	Pale yellow (2.5Y7/3-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 2.5YR66, 20-50% , 5-15mm, Distinct; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals; Diffuse change to -

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B2 1.8 - 2 m Pale yellow (2.5Y7/3-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 2.5YR66, 20-50% , 5-15mm, Distinct; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals;

Morphological Notes

Observation Notes

PLAIN WITH CLAYPANS BETWEEN VEGETATED SAND RIDGES:FRAGILE SURFACE CRUST1-2MM THICK WITH PEDS CEMENTED IN UNDER SURFACE: SELF-MULCHED, LOOSE BENEATH:

Site Notes

BEDOURIE

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[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
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