WQA Project Name:

Project Code: WQA Site ID: B589 Observation ID: 1

Agency Name: **CSIRO** Division of Soils (QLD)

Site Information

G.D. Hubble Locality:

Desc. By: Date Desc.: Elevation: 01/09/69 90 metres Map Ref.: Sheet No.: 6649 1:100000 Rainfall: 203 Northing/Long.: 138.9375 Runoff: Slow

Easting/Lat.: Drainage: Poorly drained -24.0375

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: **Substrate Material:** Auger boring, 1.4 m deep, Clay Cza

Land Form

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

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Gypsic Crusty Brown Vertosol Principal Profile Form: Ua5.24 **ASC Confidence: Great Soil Group:** Grey clay

No analytical data are available but confidence is fair.

<u>Site Disturbance:</u> 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

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Prome	WOI PHOIOGY	
A1	0 - 0.1 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Loose consistence; Very few (0 - 2 %), Calcareous, , Nodules; Gradual change to -
B2	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules;
B2	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules;
B2	0.3 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules;
B2	0.6 - 0.75 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.75 - 0.9 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.9 - 1.2 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Common (10 - 20 %), Gypseous, , Crystals;
B2	1.2 - 1.4 m	Yellowish brown (10YR5/4-Moist); , 10YR72, 0-2%; , 0-2%; Heavy clay; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Many (20 - 50 %), Gypseous, , Crystals; Gradual change to -
С	1.4 - 1.5 m	$\label{light} \mbox{Light yellowish brown (10YR6/4-Dry); , 10YR43, 20-50\% , 0-5mm, Distinct; , 10YR32, 20-50\% , 0-5mm, Distinct; Heavy clay; Few (2 - 10 \%), Gypseous, , Crystals;}$
	1.5 - 1.8 m	Brownish yellow (10YR6/5-Dry); , 10YR72, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Heavy clay; Few (2 - 10 %), Gypseous, , Crystals;
	1.8 - 2 m	Brownish yellow (10YR6/5-Dry); , 2.5Y62, 20-50% , 5-15mm, Prominent; , 10YR66, 20-50% , 5-15mm, Prominent; Heavy clay; Very few (0 - 2 %), Gypseous, , Crystals;

WQA

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Morphological Notes Observation Notes

140-200CM CLAY WITH SANDY BANDS. VEGETATION FORBLAND.

Site Notes SANDRINGHAM Project Name: Project Code: Agency Name: WQA

WQA Site ID: B58 CSIRO Division of Soils (QLD) B589 Observation ID: 1

Laboratory Test Results:

Laboratory	rest Res	suits:										
Depth	рН	1:5 EC		nangeable (Exchangeable	CEC	E	CEC		ESP
m		dS/m	Ca M	Иg	K	Na Cmol (+)	Acidity /kg					%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.75 0.75 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.8 1.8 - 2	8.4H 8.8H 8.9H 8.5H 8.3H 7.9H 7.8H 7.4H 7.3H 7.2H 7.1H	0.041B 0.06B 0.092B 0.49B 1.22B 3.46B 17B 34.8B 7.1B 8.5B 9.6B	16.8K	10.4	1.1	1.3	0D					
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV	rticle S CS	Size A FS %	nalysi Silt	
•••	70	70	9/1.9	,,	70	70	g/o			,,		
0 - 0.1	0.42C	0.18E	32B	0.03F	0.025	5B 1.15	5B		10C	42	5	41
0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.75	0.56C 0.59C 0.96C 0.98C	0.16E	37B	0.031F 0.025F	0.021 0.021	IB 1.2 IB 0.94			9C	40	9	39
0.75 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.8	0.73C 0.06C 0C 0.01C 0.02C	0.03E		0.034F	0.011	IB 0.97	7B		9C	28	4	43
1.8 - 2	0.02C 0C	0.02E	119B	0.057F	0.14	B 1.45	5B		8C	10	19	51
Depth m	COLE	Sat.	Grav 0.05 Bar		umetric Wa 0.5 Bar - m3/m3	ater Cont 1 Bar		5 Bar	K sat		K unsa mm/h	
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.75 0.75 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.8 1.8 - 2												

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Laboratory Analyses Completed for this profile

Total element - S(%) - Not recorded 10A NR

15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_H Hydrogen Cation - meg 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 5_NR pH of soil - Not recorded

Water soluble Chloride - Cl(%) - Not recordede

Organic carbon (%) - Not recorded 6Z 7_NR Total nitrogen (%) - Not recorded 9A_NR 9G_BSES

Total element - P(%) - Not recorded Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_NR_C Clay (%) - Not recorded

P10_NR_CS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded