

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B590      **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. : 6749    1:100000	<b>Rainfall:</b>	203
<b>Northing/Long.:</b>	139.166666666667	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-24.1	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Klw	<b>Substrate Material:</b>	Auger boring, 1 m deep,Mudstone

**Land Form**

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	20 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Self-mulching

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Gypsic Self-Mulching Brown Vertosol		<b>Principal Profile Form:</b>	Ug5.32
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Brown clay

No analytical data are available but confidence is fair.

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

**Vegetation:**

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

**Profile Morphology**

A1	0 - 0.1 m	Reddish yellow (7.5YR6/5-Dry); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Loose consistence; Few (2 - 10 %), Calcareous, , Nodules;
B2	0.1 - 0.2 m	Strong brown (7.5YR5/5-Dry); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules;
B2	0.2 - 0.3 m	Strong brown (7.5YR5/5-Dry); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules;
B2	0.3 - 0.6 m	Strong brown (7.5YR5/5-Dry); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules;
B2	0.6 - 0.65 m	Strong brown (7.5YR5/5-Dry); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules;
	0.65 - 0.9 m	;
	0.9 - 1.2 m	;

**Morphological Notes**

White gypsum with some soil impurity.

**Observation Notes**

WHITE GYPSUM WITH SOME SOIL IMPURITY.

**Site Notes**

SANDRINGHAM

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.1	8.7H	0.05B							
0.1 - 0.2	8.6H	0.07B							
0.2 - 0.3	8.8H	0.05B	29K	0.86	0.3	1			
0.3 - 0.6	8.7H	0.08B							
0.6 - 0.65	8H	0.58B							
0.65 - 0.9	7.9H	42.7B							
0.9 - 1.2	8H	49.2B							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1	2.3C	0.24E	54B	0.007F	0.032B	0.57B			13C	44	7	29
0.1 - 0.2	2.6C											
0.2 - 0.3	2.5C	0.24E	56B	0.028F	0.026B	0.79B			11C	42	5	36
0.3 - 0.6	2.9C	0.16E		0.022F	0.041B	0.68B						
0.6 - 0.65	3.8C	0.18E		0.031F	0.096B	0.83B			10C	39	5	38
0.65 - 0.9	2.2C		55B									
0.9 - 1.2	2.1C								3C	10	5	27

[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_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