

Project Name: WQR
Project Code: WQR **Site ID:** B438 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	04/06/60	Elevation:	259 metres
Map Ref.:	Sheet No. : 8743 1:100000	Rainfall:	544
Northing/Long.:	149.241666666667	Runoff:	Rapid
Easting/Lat.:	-27.1986111111111	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 0.91 m deep, Sandstone

Land Form

Rel/Slope Class:	Rolling rises 9-30m 10-32%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	10 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Epipedal Black Vertosol		Principal Profile Form:	Ug5.12
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: Low Strata - Tussock grass, , Sparse. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: 0-2%, stony, 200-600mm, ,

Profile Morphology

AB	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, <2 mm, Granular; Moist; Weak consistence; 0-2%, stony, 200-600mm, coarse fragments; Field pH 7 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
B2	0.1 - 0.25 m	Dark brown (7.5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Moist; Weak consistence; 0-2%, rounded, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 7.5 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
B2	0.25 - 0.51 m	Dark brown (7.5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B2	0.51 - 0.76 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); FewDiffuse change to -
B3	0.76 - 0.91 m	Dark greyish brown (10YR4/2-Moist); ; Light medium clay; Weak grade of structure, Lenticular; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Diffuse change to -
C	0.91 - 1.07 m	; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.8 (pH meter);

Morphological Notes

C Pale yellow (2.5Y7/5) speckled weathered sandstone.

Observation Notes

0-10CM GRANULAR GRADING TO POLYHEDRAL STRUCTURE:SUBSTRATE IS FELDSPATHIC SANDSTONE:

Site Notes

SURAT

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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	7H	0.03B	31K	8.8	1.1	0.34	3.1D			
0.1 - 0.25	7.5H	0.05B								
0.25 - 0.51	8.4H	0.05B	35.3K	10.8	0.37	1.1	0D			
0.51 - 0.76	8.5H	0.06B	35K	11.8	0.3	2	0D			
0.76 - 0.91	8.7H	0.07B								
0.91 - 1.07	8.8H	0.07B								

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		1.1A	30C	0.028F	0.115B			0	6C	33	10	47
0.1 - 0.25		0.72A						0	6C	29	12	50
0.25 - 0.51	0.51C	0.68A		0.025F	0.076B			0	5C	30	11	49
0.51 - 0.76	1.3C	0.61A							6C	28	11	50
0.76 - 0.91	1.9C							2	11C	41	13	30
0.91 - 1.07	4.9C			0.063F								

[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
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
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