WQA **Project Name:** 

**Project Code:** WQA Site ID: B610 Observation ID: 1

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

Site Information

G.D. Hubble Locality:

Desc. By: Date Desc.: Elevation: 01/09/69 120 metres Map Ref.: Sheet No.: 7047 Rainfall: 225 Northing/Long.: 140.96666666667 Runoff: No Data Easting/Lat.: -24.027222222222 Drainage: No Data

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Auger boring No Data

Geol. Ref.: **Substrate Material:** Auger boring, 1 m deep, No Data Kw

**Land Form** 

Rel/Slope Class: Gently undulating plains <9m 1- Pattern Type: Plain

No Data Morph. Type: Relief: No Data

Very gently sloped Elem. Type: Plain Slope Category:

0 % Aspect: No Data Slope:

Surface Soil Condition (dry): Surface crust

**Erosion:** 

**Soil Classification** 

1.8 - 2.1 m

**Australian Soil Classification:** Mapping Unit: N/A Endohypersodic Self-Mulching Red Vertosol **Principal Profile Form:** Ug5.33 Great Soil Group: **ASC Confidence:** Brown clay

Analytical data are incomplete but reasonable confidence. Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Forb, 12.01-20m, Sparse. \*Species includes - None Recorded

Surface Coarse Fragments: 0-2% medium gravelly 6-20mm

Surfa	ace Coarse Fra	gments: 0-2%, medium gravelly, 6-20mm, , Gravel					
<u>Profi</u>	le Morphology						
A1	0 - 0.1 m	Yellowish red (5YR5/6-Moist); ; Light medium clay; Strong grade of structure, Granular; Dry; Loose consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 7 (p meter); Clear change to -					
B2	0.1 - 0.2 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 6.6 (pH meter); Gradual change to -					
B2	0.2 - 0.3 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 6.4 (pH meter); Gradual change to -					
B2	0.3 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 6.5 (pH meter); Gradual change to -					
B2	0.6 - 0.9 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 6.6 (pH meter); Gradual change to -					
B2	0.9 - 1 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; , Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 6.7 (pH meter); Clear change to -					
	1 - 1.2 m	Yellowish red (5YR5/6-Moist); , 10YR82, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Medium clay; , Angular blocky; Firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 6.4 (pH meter);					
	1.2 - 1.5 m	Yellowish red (5YR5/6-Moist); , 10YR82, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Medium clay; , Angular blocky; Weak consistence; Field pH 6 (pH meter);					
	1.5 - 1.8 m	White (2.5Y8/2-Moist); , 10YR72, 20-50% , 5-15mm, Prominent; , 5YR56, 20-50% , 5-15mm,					

Prominent; Medium clay; , Angular blocky; Weak consistence; Field pH 6.7 (pH meter); White (2.5Y8/2-Moist); , 10YR72, 20-50% , 5-15mm, Prominent; , 5YR56, 20-50% , 5-15mm,

Prominent; Medium clay; , Angular blocky; Weak consistence; Field pH 5.6 (pH meter);

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White (2.5Y8/2-Moist); , 2.5Y86, 20-50% , 5-15mm, Prominent; , 10YR68, 20-50% , 5-15mm, Prominent; Medium clay; Weak consistence; Field pH 5.5 (pH meter); 2.1 - 2.25 m

Brownish yellow (10YR6/8-Moist); , 10YR72; , 2.5Y82; Medium clay; Weak consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 5.5 (pH meter); 2.25 - 2.4 m

Yellow (2.5Y7/6-Moist); , 10YR68; Medium clay; Weak consistence; Field pH 5.6 (pH meter); 2.4 - 2.7 m

White (2.5Y8/2-Moist); , 10YR78; Light clay; Weak consistence; Field pH 5.4 (pH meter); 2.7 - 3 m

## **Morphological Notes**

**Observation Notes** 

**Site Notes** 

CURAWILLA

Project Name: Project Code: Agency Name: WQA

WQA Site ID: B6<sup>2</sup> CSIRO Division of Soils (QLD) B610 Observation ID: 1

## **Laboratory Test Results:**

Depth	pН	1:5 EC		Exchangeable Cations			Exchangeabl				ECEC		SP
m		dS/m	Ca Mg K		K	Na Acidity Cmol (+)/kg							%
0 04	71.1	0.700	3 27K	1.9	1.3	0.00		0D					
0 - 0.1	7H 6.6H	0.72E		1.9	1.3	0.62		טט					
0.1 - 0.2 0.2 - 0.3	6.4H	4.3B 5.1B											
0.2 - 0.3	6.5H	7.3B											
0.5 - 0.0	6.6H	7.5B 7.6B											
0.9 - 1	6.7H	11.8E											
1 - 1.2	6.4H	25.2E											
1.2 - 1.5	6H	12.8E											
1.5 - 1.8	5.7H	13.1E											
1.8 - 2.1	5.6H	8.6B											
2.1 - 2.25	5.5H	3.5B											
2.25 - 2.4	5.5H	3.2B											
2.4 - 2.7	5.6H	2.4B											
2.7 - 3	5.4H	5.3B											
Depth	CaCO3	Organic	Avail.	Total	Total	Total		Bulk	Р			Analysis	i
		С	P	Р	N	K		ensity	/ GV	cs	FS	Silt	Clay
m	%	%	mg/kg	ı %	%	%	N	/lg/m3			%		
0 - 0.1		0.22A	34B	0.031F	0.028	8B 0.7	В			4C	40	8	46
0.1 - 0.2		0.15A		0.03F	0.024	4B 0.68	3B			6C	39	8	44
0.2 - 0.3		0.21A	17B	0.029F	0.024	4B 0.6	7B			4C	34	8	44
0.3 - 0.6		0.11A		0.029F	0.016					3C	35	9	43
0.6 - 0.9		0.06A		0.031F	0.01	-				3C	33	_	43
0.9 - 1		0.06A		0.03F	0.01					1C	28		46
1 - 1.2		0.04A		0.024F	0.009					1C	12		49
1.2 - 1.5		0.05A		0.022F	0.01					1C	25		40
1.5 - 1.8		0.06A	17B		0.014					1C	23		38
1.8 - 2.1		0.07A		0.025F	0.01	1B 0.7	ρB			1C	27		38
2.1 - 2.25 2.25 - 2.4										2C 3C	21 19	_	47 47
2.25 - 2.4 2.4 - 2.7										3C	27	_	42
2.7 - 3		0.02A		0.036F	0.016	6B 0.7	5B			3C	21		45
0		0.02/		0.000.	0.0	· · · · ·	-						.0
Depth	COLE			vimetric/Volu						K s	at	K unsat	:
m		Sat.	0.05 Bar		0.5 Bar - m3/m3	1 Bar	5 B	ar	15 Bar	mm	/h	mm/h	
0 - 0.1 0.1 - 0.2													

<sup>0.1 - 0.2</sup> 0.2 - 0.3

<sup>0.2 - 0.3</sup> 0.3 - 0.6 0.6 - 0.9 0.9 - 1 1 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.25 2.25 - 2.4 2.4 - 2.7

Project Name: Project Code: Agency Name:

WQA
WQA
Site ID: B6<sup>2</sup>
CSIRO Division of Soils (QLD) B610 Observation ID: 1

2.7 - 3

**WQA Project Name:** 

**Project Code:** WQA Site ID: B610 Observation ID: 1

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

## **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++) - med per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15\_NR\_NA

17A\_NR Total element - K(%) - Not recorded

2 LOI Loss on Ignition (%) Air-dry moisture content 2A1

3\_NR Electrical conductivity or soluble salts - Not recorded

4\_NR pH of soil - Not recorded

5\_NR Water soluble Chloride - Cl(%) - Not recordede

Organic carbon - Walkley and Black 6A1 7\_NR Total nitrogen (%) - Not recorded 9A\_NR Total element - P(%) - Not recorded

Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) Clay (%) - Not recorded 9G\_BSES

P10\_NR\_C

P10\_NR\_CS Coarse sand (%) - Not recorded P10\_NR\_FS Fine sand (%) - Not recorded Silt (%) - Not recorded Illite - X-Ray Diffraction P10\_NR\_Z XRD\_C\_II Kaolin - X-Ray Diffraction

XRD\_C\_Ka XRD\_C\_Mm XRD\_C\_Qz Montmorillonite - X-Ray Diffraction Quartz - X-Ray Diffraction