DD **Project Name:**

Project Code: Site ID: **B225** Observation ID: 1 DD

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

Site Information

C.H. Thompson Locality:

Desc. By: Date Desc.: Elevation: 01/11/53 396 metres Sheet No.: 9242 Map Ref.: 1:100000 Rainfall: 965 Northing/Long.: 151.9775 Runoff: Rapid

Easting/Lat.: -27.518055555556 Drainage: Moderately well drained

Geology

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

Geol. Ref.: **Substrate Material:** Soil pit, 1 m deep, Sandstone Jm

Land Form

Rel/Slope Class: No Data Pattern Type: Escarpment Morph. Type: Elem. Type: Crest Relief: 107 metres Scarp **Slope Category:** No Data No Data Slope: 0 % Aspect:

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Eutrophic Mottled-Subnatric Red Sodosol Principal Profile Form: Dr3.41

Red podzolic soil **ASC Confidence: Great Soil Group:**

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Low Strata - Tussock grass, , . *Species includes - None recorded **Vegetation:**

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.13 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Massive grade of structure; Weak grade of structure, Granular; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 6.1 (pH meter); Clear change to -
A2	0.13 - 0.3 m	Light grey (10YR7/2-Moist); ; Sand; Massive grade of structure; Weak grade of structure, Granular; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 6 (pH meter); Clear change to -
B2	0.3 - 0.64 m	Dark red (2.5YR3/6-Moist); , 10YR71; Heavy clay; Weak grade of structure, Prismatic; Moderate grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Sandstone, coarse fragments; Field pH 5.5 (pH meter); Gradual change to -
B2	0.64 - 0.91 m	Dark red (2.5YR3/6-Moist); , 10YR61; Medium clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Sandstone, coarse fragments; Field pH 5.6 (pH meter); Gradual change to -
В3	0.91 - 1.14 m	Grey (10YR6/1-Moist); , 5YR44; , 10YR68; Sandy medium clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Sandstone, coarse fragments; Field pH 5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

DARLING DOWNS

Project Name: Project Code: Agency Name: DD

DD Site ID: B22 CSIRO Division of Soils (QLD) B225 Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Evel	nangeable	Cations		Exchangeable	CEC		ECEC		ESP	
Бериі	рп			langeable /lg	K	Na	Acidity	CLC		LCLC		_3F	
m		dS/m		J		Cmol (-	•				,	%	
0 - 0.13	6.1H	0.01B	9.1K	2.9	0.61	0.06	12.8D						
0.13 - 0.3	6H	0.01B											
0.3 - 0.64	5.5H	0.01B	1K	7.2	0.81	0.66	18D						
0.64 - 0.91	5.6H	0.01B											
0.91 - 1.14	5H	0.02B											
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	l Bulk	Pa	rticle	Size	Analysis	;	
		C	Р	Р	N	K	Density	GV	cs	FS	-	Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%		-	
0 0 10		0.004	050	0.0545	0.00			0.4		00	_	4.0	
0 - 0.13		3.83A	35C	0.054F	0.20)6B		0.4	8C	63	_	12	
0.13 - 0.3		0.32A	40	0.005				0.3	8C	68	_	9	
0.3 - 0.64		0.37A	4C	0.02F				0.2	2C	30	_	56	
0.64 - 0.91		0.14A						0.2	5C	41		41	
0.91 - 1.14		0.1A		0.018F				0.2	7C	47	13	33	
- 						umetric Water Contents				at	K unsat	t	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h		

0 - 0.13 0.13 - 0.3 0.3 - 0.64 0.64 - 0.91 0.91 - 1.14

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Laboratory Analyses Completed for this profile

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

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

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

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

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

Organic carbon - Walkley and Black Total nitrogen (%) - Not recorded 6A1 7_NR Available P (mg/kg) - Not recorded 9_NR 9A_NR Total element - P(%) - Not recorded

Gravel (%)

P10_GRAV 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