DD **Project Name:**

Project Code: Site ID: B158 Observation ID: 1 DD

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: Date Desc.: G.G. Beckmann Locality:

01/11/51 Elevation: 530 metres

Map Ref.: Sheet No.: 9242 1:100000 Rainfall: 760

Northing/Long.: Runoff: 151.825 Moderately rapid -27.53388888888889 Imperfectly drained Easting/Lat.: Drainage:

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 2 m deep, Porous, Tm

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-Pattern Type: Low hills

10%

Morph. Type: No Data Relief: 30 metres

Pediment Slope Category: Very gently sloped Elem. Type:

Slope: 0 % Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Ug5.16 Epicalcareous Self-Mulching Black Vertosol **Principal Profile Form: ASC Confidence: Great Soil Group:** Black earth

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species, Bassia species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus orgadophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.18 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, Granular; Medium, (5 - 10) mm crack; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.4 (pH meter); Gradual change to -
B2	0.18 - 0.69 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8 (pH meter); Gradual change to -
B2	0.69 - 0.86 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moderately moist; Firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.7 (pH meter); Gradual change to -
В	0.89 - 1.52 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, Lenticular; Moderately moist; Firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.9 (pH meter); Gradual change to -
В	1.52 - 2.13 m	Brown (10YR5/3-Moist); ; Medium clay; Strong grade of structure, Lenticular; Moderately moist; Firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

0-18CM STRONG GRANULAR GRADING TO FINE BLOCKY STRUCTURE

Site Notes

DARLING DOWNS

Project Name: Project Code: Agency Name: DD

DD Site ID: B15
CSIRO Division of Soils (QLD) B158 Observation ID: 1

Laboratory Test Results:

Laboratory Test Results.													
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP	
m		dS/m	Ja I	wig	ĸ	Cmol (+					%	, 0	
0 - 0.18 0.18 - 0.69 0.69 - 0.86	7.4H 8H 8.7H	0.044B 0.119B	55.8K 53.2K	38.9 32.8	0.74 0.45	0.95 2.7	6.6D 3.2D	96.7	J	103E 92.6E	2.	79	
0.89 - 0.86 0.89 - 1.52 1.52 - 2.13	8.9H 9.1H	0.137B 0.121B 0.142B	27.5K	28.9	0.28	2.7		61.5	J	59.4E	4.	39	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Density	Pai GV	ticle CS	FS	Analysis Silt (Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
0 - 0.18 0.18 - 0.69 0.69 - 0.86	0.2780 13.90		44C	0.055F 0.037F	_			3	2C 2C 2C	7 7 12	11 13 12	75 71 58	
0.89 - 1.52 1.52 - 2.13	15.9C 20.3C							8 14	3C 2C	20 12	16 8	40 57	
Depth	COLE Gravimetric/Volumetric Water Contents								K sa	at	K unsat		
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h		

0 - 0.18 0.18 - 0.69 0.69 - 0.86 0.89 - 1.52 1.52 - 2.13

Project Name: DD

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Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

15_NR Sum of Ex. cations + Ex. acidity - Not recorded

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

15_NR_CEC CEC - meg 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

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

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

6Z Organic carbon (%) - Not recorded
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