DD **Project Name:** 

**Project Code:** DD Site ID: B165 Observation ID: 1

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

**Site Information** 

Locality: G.G. Beckmann

Desc. By: Date Desc.: Elevation: 01/11/51 448 metres Sheet No.: 9242 Map Ref.: 1:100000 Rainfall: 700 Northing/Long.: 151.7875 Runoff: Slow

Easting/Lat.: -27.530555555556 Drainage: Poorly drained

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 3 m deep, Porous, Tm

Unconsolidated material (unidentified)

**Land Form** 

Rel/Slope Class: No Data Pattern Type: Flood plain Morph. Type: Elem. Type: Flat Relief: 30 metres Valley flat Slope Category: Level Aspect: 0 % No Data Slope:

Surface Soil Condition (dry): Self-mulching

**Erosion:** 

**Soil Classification** 

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

No analytical data are available but confidence is fair.

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A1	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; Field pH 8.3 (pH meter); Sharp change to -
B2	0.04 - 0.48 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Diffuse change to -
B2	0.48 - 1.07 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Diffuse
B2	1.07 - 1.47 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B2	1.47 - 2.08 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B2	2.08 - 2.59 m	Very dark greyish brown (10YR3/2-Moist); , 10YR42; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Diffuse change to -
В	2.59 - 3 m	Greyish brown (10YR5/2-Moist); , 10YR42; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm),

## **Morphological Notes**

**Observation Notes** 

0-30CM POSSIBLY ALLUVIAL STRATIFICATION

Nodules; Field pH 8.7 (pH meter);

**Site Notes** 

DARLING DOWNS

Project Name: DD
Project Code: DD Site ID: B16
Agency Name: CSIRO Division of Soils (QLD) B165 Observation ID: 1

## **Laboratory Test Results:**

Depth	pН	1:5 EC		nangeable	Cations K	E Na	xchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	od II	Mg	N.	Cmol (+)					%	ó
0 - 0.04 0.04 - 0.48 0.48 - 1.07 1.07 - 1.47 1.47 - 2.08 2.08 - 2.59 2.59 - 3	8.3H 8.7H 8.9H 8.8H 8.8H 8.7H	0.102B 0.077B 0.089B 0.142B 0.18B 0.222B 0.27B										
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV	rticle CS	Size FS %	Analysis Silt C	Clay
0 - 0.04 0.04 - 0.48 0.48 - 1.07	3.78C 7.95C		460C	0.099F 0.088F					<1C	19	15	54
1.07 - 1.47 1.47 - 2.08	6.16C	;						2	<1C	11	15	62
2.08 - 2.59 2.59 - 3	15.2C	;						14	2C	8	11	58
Depth	COLE		Gravimetric/Volumetric Water Contents K sat K unsat									
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar J - m3/m3	1 Bar	5 Bar 15	Bar	mm	/h	mm/h	

0 - 0.04 0.04 - 0.48 0.48 - 1.07 1.07 - 1.47 1.47 - 2.08 2.08 - 2.59 2.59 - 3

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## **Laboratory Analyses Completed for this profile**

19B NR Calcium Carbonate (CaCO3) - Not recorded

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

Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded 3 NR

4\_NR

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

6Z Organic carbon (%) - Not recorded Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 7\_NR 9\_NR 9A\_NR

P10\_GRAV P10\_NR\_C P10\_NR\_CS Gravel (%)
Clay (%) - Not recorded Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10\_NR\_FS P10\_NR\_Z Silt (%) - Not recorded