

Project Name: DD
Project Code: DD **Site ID:** B202 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Beckmann	Locality:	
Date Desc.:	01/10/53	Elevation:	547 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	660
Northing/Long.:	151.663888888889	Runoff:	Moderately rapid
Easting/Lat.:	-27.647222222222	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tm	Substrate Material:	Soil pit, 0.76 m deep, Slightly porous, Basalt

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-32%	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	76 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Endocalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.13
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:

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Geijera parviflora, Eucalyptus crebra, Eucalyptus
orgadophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.1 m	Black (10YR2/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Field pH 7.1 (pH meter); Clear change to -
B21	0.1 - 0.33 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Field pH 7.2 (pH meter); Gradual change to -
B22	0.33 - 0.56 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Field pH 7.6 (pH meter); Gradual change to -
B3	0.56 - 0.71 m	Dark brown (7.5YR3/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, Basalt, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.4 (pH meter); Gradual change to -
C	0.76 - 1.09 m	Grey (2.5Y5/0-Moist); ; Field pH 8.8 (pH meter);

Morphological Notes

C Weath'd basalt with some clayey pockets and few CO3 nodules

Observation Notes

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

DARLING DOWNS

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.1	7.1H	0.03B								
0.1 - 0.33	7.2H	0.03B								
0.33 - 0.56	7.6H	0.04B	60.7K	12.8	0.52	1.6	7.7D			
0.56 - 0.71	8.4H	0.09B								
0.76 - 1.09	8.8H	0.09B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.53A	1864C	0.336F	0.24B							
0.1 - 0.33												
0.33 - 0.56		1.21A						0.2	0.7C	9	18	70
0.56 - 0.71												
0.76 - 1.09				0.355F								

[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
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 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