

Project Name: DD
Project Code: DD **Site ID:** B190 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	22/10/53	Elevation:	427 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	610
Northing/Long.:	151.525	Runoff:	Moderately rapid
Easting/Lat.:	-27.5580555555556	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tm	Substrate Material:	Auger boring, 1.5 m deep,Basalt

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	30 metres
Elem. Type:	Pediment	Slope Category:	No Data
Slope:	3.5 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol	Principal Profile Form:	Ug5.16

ASC Confidence:

All necessary analytical data are available.

Great Soil Group:

Black earth

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

Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Danthonia species, Sporobolus elongatus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.1 m	Black (10YR2/1-Dry); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Moist; Weak consistence; 0-2%, Basalt, coarse fragments; Field pH 7.6 (pH meter); Clear change to -
B2	0.1 - 0.46 m	Black (10YR2/1-Dry); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, subrounded, coarse fragments; Field pH 8.5 (pH meter); Gradual change to -
B2	0.46 - 0.58 m	Black (10YR2/1-Dry); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, subrounded, coarse fragments; Field pH 8.7 (pH meter); Gradual change to -
B2	0.58 - 0.89 m	Very dark grey (10YR3/1-Dry); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, subrounded, coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Gradual change to -
B2	0.89 - 1.09 m	Very dark greyish brown (10YR3/2-Dry); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, subrounded, coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.7 (pH meter); Diffuse change to -
	1.09 - 1.3 m	Dark brown (10YR3/3-Dry); , 10YR63; Heavy clay; Moderate grade of structure, Lenticular; Weak grade of structure, Angular blocky; Weak consistence; 2-10%, Shale, coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.8

Morphological Notes

Observation Notes

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

DARLING DOWNS

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[illegible]

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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_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 (CaCO ₃) - 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
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