

Project Name: DD
Project Code: DD **Site ID:** B195 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	01/10/53	Elevation:	434 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	660
Northing/Long.:	151.580555555556	Runoff:	Slow
Easting/Lat.:	-27.745833333334	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Jw	Substrate Material:	Soil pit, 0.94 m deep,Porous, Mudstone

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	1.75 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mottled-Mesonatric Black Sodosol		Principal Profile Form:	Dd2.43
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Bothriochloa decipiens
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus populnea, Casuarina cristata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark grey (10YR4/1-Dry); ; Clay loam; ; Platy; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 6.8 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
A2	0.06 - 0.14 m	Grey (10YR6/1-Dry); ; Clay loam; Weak grade of structure, Angular blocky; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 7.6 (pH meter); Many, fine (1-2mm) roots; Abrupt change to -
B21	0.14 - 0.28 m	Very dark grey (10YR3/1-Moist); , 7.5YR54; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Detrital sedimentary rock (unidentified), coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B22	0.3 - 0.53 m	Brown (7.5YR5/4-Moist); , 7.5YR42; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Detrital sedimentary rock (unidentified), coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B23	0.53 - 0.71 m	Brown (7.5YR4/2-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Detrital sedimentary rock (unidentified), coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals; Field pH 8.1 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B24	0.71 - 0.89 m	Brown (7.5YR4/2-Moist); , 10YR64; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Common (10 - 20 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Gradual change to -
C	0.94 - 1.27 m	Light grey (10YR7/1-Moist); , 10YR66; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Gypseous, , Crystals; Field pH 7.3 (pH meter);

Morphological Notes

Observation Notes

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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_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 (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
P3A_NR	Bulk density - Not recorded
P3B_VL_15	15 BAR Moisture m ³ /m ³ - Volumetric using pressure plate