Project Name: DD

Project Code: DD Site ID: B151 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: C.H. Thompson Locality:

 Date Desc.:
 25/10/51
 Elevation:
 380 metres

 Map Ref.:
 Sheet No.: 9243
 1:100000
 Rainfall:
 610

 Northing/Long.:
 151.5347222222222
 Runoff:
 Slow

Easting/Lat.: -27.465555555555 Drainage: Imperfectly drained

<u>Geology</u>

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

Geol. Ref.: Czb Substrate Material: Auger boring, Porous, Unconsolidated

material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m 1- Pattern Type: Alluvial fan

3%

Morph. Type:No DataRelief:No DataElem. Type:Drainage depressionSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEpicalcareous Self-Mulching Grey VertosolPrincipal Profile Form:Ug5.28ASC 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 - Tussock grass, 0.51-1m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A 0 - 0.08 m Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular;

Dry; Weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH

8.3 (pH meter); Many, fine (1-2mm) roots; Clear change to -

0.08 - 0.41 m Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular

blocky; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations;

Field pH 9 (pH meter); Many, fine (1-2mm) roots; Gradual change to -

0.41 - 0.89 m Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm,

Angular blocky; Firm consistence; Very few (0 - 2 %), Manganiferous, , Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 9.4 (pH meter); Few, fine (1-

2mm) roots; Gradual change to -

0.94 - 1.37 m Dark greyish brown (10YR4/2-Moist); , 10YR52; Heavy clay; Moderate grade of structure,

Lenticular; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations;

Field pH 9.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

DARLING DOWNS

Project Name: Project Code: Agency Name: DD

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Laboratory Test Results:

Depth	pН	1:5 EC	Exchangeable Cations				Exchangeable		CEC		E	SP
m		dS/m	Ca M	Иg	K	Na Cmol (Acidity +)/kg				o.	%
0 - 0.08	8.3H	0.098B	41.8K	27	3.5	0.73		73.3	J	73E	1	.00
0.08 - 0.41	9H	0.098B	26.2K	41.2	1.3	2.3		69.7	J.	70.8E	3	.30
0.41 - 0.89	9.4H	0.196B										
0.94 - 1.37	9.5H	0.367B		45.1	2	21.8						
								_				
Depth	CaCO3	Organic	Avail. P	Total P	Total	Tota			article		Analysis	
m	%	C %	mg/kg	%	N %	К %	Density Mg/m3	GV	cs	FS %	Silt	Clay
0 - 0.08	2.69C	2.72E	530C	0.108F	0.213B			0	3C	5	9	76
0.08 - 0.41	8.3C	0.94E		0.104F	0.064B				<1C	4	9	74
0.41 - 0.89	9.2C	0.58E			0.03	33B						
0.94 - 1.37	7C	0.58E			0.02	24B		0	2C	5	23	62
Depth	COLE	COLE Gravimetric/Volumetric Water Contents							K sat		K unsat	
m		Sat.	0.05 Bar		0.5 Bar - m3/m	1 Bar 3	5 Bar 1	Bar	mm	/h	mm/h	

0 - 0.08 0.08 - 0.41 0.41 - 0.89 0.94 - 1.37

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Laboratory Analyses Completed for this profile

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

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

15_NR_CEC

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 Exch. basic cations (Na++) - meq per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_NA

19B_NR

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

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR 5_NR pH of soil - Not recorded

Water soluble Chloride - Cl(%) - Not recordede

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

P10_GRAV Gravel (%)

P10_NR_C

Clay (%) - Not recorded Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_CS P10_NR_FS P10_NR_Z Silt (%) - Not recorded