

Project Name: TBL
Project Code: TBL **Site ID:** B835 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	B. Slater	Locality:	
Date Desc.:	16/02/87	Elevation:	No Data
Map Ref.:	Sheet No. : 8843 1:100000	Rainfall:	0
Northing/Long.:	149.9	Runoff:	Moderately rapid
Easting/Lat.:	-27.2666666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qs	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Episodic-Endoacidic Epipedal Grey Vertosol		Principal Profile Form:	Ug5.24
ASC Confidence:		Great Soil Group:	Grey clay

All necessary analytical data are available.

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Sclerolaena tetracuspis
 Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Acacia harpophylla, Casuarina cristata

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.03 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); , 7.5YR44, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; Field pH 7.2 (pH meter); Clear change to -
A12	0.03 - 0.1 m	Light brownish grey (10YR6/2-Moist); , 7.5YR44, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; Clear change to -
B21	0.1 - 0.2 m	Light brownish grey (10YR6/2-Moist); , 7.5YR44, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Medium heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Gradual change to -
B22	0.2 - 0.3 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Field pH 8.5 (pH meter); Gradual change to -
B23	0.3 - 0.54 m	Light brownish grey (10YR6/2-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Veins; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Gradual change to -
B24	0.54 - 0.6 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Veins; Field pH 8.8 (pH meter); Gradual change to -
B25	0.6 - 0.9 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Veins; Field pH 9 (pH meter); Gradual change to -
B26	0.9 - 1.2 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Field pH 9 (pH meter); Gradual change to -

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B27	1.2 - 1.5 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Field pH 7 (pH meter); Gradual change to -
	1.5 - 1.68 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Gradual change to -

Morphological Notes

Observation Notes

LAYERS RE NUMBERED 12/10/92

Site Notes

TARA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.03	7.8H	0.066B	19.1K	5.9	2.2	1.3	2.3D		
0.03 - 0.1	8.5H	0.082B	20.7K	6.3	1.2	2.8	5.4D		
0.1 - 0.2	8.6H	0.29B	19.1K	7.7	0.6	4.6	4.6D		
0.2 - 0.3	8.4H	0.63B	19.8K	9.4	0.6	5.2	<0.1D		
0.3 - 0.54	8H	0.87B	17.3K	10.5	0.7	5.9	<0.1D		
0.54 - 0.6	5.1H	0.91B	12.7K	9.6	0.7	6.4	4.8D		
0.6 - 0.9									
0.9 - 1.2	4.5H	0.91B	10.2K	9	0.7	6.5	7.3D		
1.5 - 1.68	4.3H	1.03B	8.8K	9.7	0.8	6.4	6.7D		

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 - 0.03	0.02C	1.3A	17B	0.027F	0.142B	0.44B			2C	36	11	50
0.03 - 0.1	0.09C	1A	7B	0.022F	0.114B	0.42B			1C	26	15	55
0.1 - 0.2	0.48C		6B	0.016F	0.072B	0.35B			2C	24	17	54
0.2 - 0.3	0.48C	0.36A	3B	0.013F	0.053B	0.35B			1C	24	14	57
0.3 - 0.54	0.21C			0.01F	0.037B	0.35B			1C	23	13	60
0.54 - 0.6					0.035B							
0.6 - 0.9				0.01F		0.35B			1C	23	13	60
0.9 - 1.2				0.009F	0.024B	0.35B			0C	23	14	60
1.5 - 1.68				0.007F	0.024B	0.35B			0C	21	14	62

[illegible]

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - 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
17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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