Project Name: TBL
Project Code: TBL **Site ID:** B818 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: B. Slater
Date Desc.: 20/02/87
Map Ref.: Sheet No. : 8943 1:100000
Northing/Long.: 150.15
Easting/Lat.: -27.2
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

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

Surface Soil Condition (dry): Self-mulching, Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Episodic-Endoacidic Self-Mulching Brown Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.34
Great Soil Group: Brown clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Acacia harpophylla, Casuarina cristata

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); ; Light medium clay; Strong grade of structure, 2-5 mm, Granular; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Firm consistence; Field pH 6.2 (pH meter); Clear change to -
0.05 - 0.1 m	Brown (7.5YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Very strong consistence; Clear change to -
0.1 - 0.2 m	Brown (7.5YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Strong consistence; Gradual change to -
0.2 - 0.3 m	Brown (7.5YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Field pH 7.8 (pH meter); Gradual change to -
0.3 - 0.48 m	Brown (7.5YR5/3-Moist); , 7.5YR46, 0-2% , 5-15mm, Faint; , 0-2% , 5-15mm, Faint; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Gradual change to -
0.48 - 0.6 m	Brown (7.5YR5/3-Moist); , 5YR46, 0-2% , 5-15mm, Faint; , 0-2% , 5-15mm, Faint; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Veins; Field pH 5.5 (pH meter); Gradual change to -
0.6 - 0.9 m	Brown (7.5YR5/3-Moist); , 5YR46, 0-2% , 5-15mm, Distinct; , 0-2% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Field pH 4.8 (pH meter); Gradual change to -
0.9 - 1.2 m	Pinkish grey (7.5YR6/3-Moist); , 5YR46, 0-2% , 5-15mm, Faint; , 0-2% , 5-15mm, Faint; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Field pH 4.5 (pH meter); Gradual change to -
1.2 - 1.5 m	Pinkish grey (7.5YR6/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Field pH 4.3 (pH meter); Gradual change to -
1.5 - 1.8 m	Pinkish grey (7.5YR6/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Gradual change to -

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Morphological Notes

Observation Notes

Site Notes

TARA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	8.7H	0.06B	18.5K	8	1.6	1.3	4.1D			
0.05 - 0.1	9.1H	0.08B	15.7K	7.8	1.4	3	5.8D			
0.1 - 0.2	9.1H	0.13B	12.7K	8.1	1.2	4.7	2D			
0.2 - 0.3	9H	0.2B	12.8K	9.6	1.3	6.1	<0.1D			
0.3 - 0.48	8.2H	0.44B	11.5K	10.1	1.3	6.5	1.8D			
0.6 - 0.9	4.8H	0.54B	6.9K	8.8	0.9	7	5.6D			
0.9 - 1.2	4.7H	0.38B	6.7K	8.8	0.9	7.7	7.6D			
1.5 - 1.8	4.5H	0.33B	5.9K	8.7	0.7	7.1	10.4D			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05	0.36C	0.64A	14B	0.019F	0.089B	0.36B			2C	30	24	34
0.05 - 0.1	0.88C	0.43A	11B	0.014F	0.073B	0.31B			2C	28	29	35
0.1 - 0.2	0.68C	0.28A	8B	0.01F	0.048B	0.3B			1C	27	29	41
0.2 - 0.3	0.26C	0.3A	11B	0.01F	0.05B	0.3B			2C	29	26	40
0.3 - 0.48				0.01F	0.04B	0.3B			1C	31	18	51
0.6 - 0.9				0.01F	0.039B	0.27B			1C	28	14	55
0.9 - 1.2				0.009F	0.038B	0.28B			0C	23	14	60
1.5 - 1.8				0.009F	0.038B	0.26B			0C	21	15	61

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.05									
0.05 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.48									
0.6 - 0.9									
0.9 - 1.2									
1.5 - 1.8									

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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 recordede
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