Project Name: TBL
Project Code: TBL **Site ID:** B829 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: B. Slater
Date Desc.: 25/02/87
Map Ref.: Sheet No. : 8942 1:100000
Northing/Long.: 150.216666666667
Easting/Lat.: -27.5333333333333
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Mid-slope
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Very gently sloped
Aspect: 20 degrees

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

Erosion:

Soil Classification

Australian Soil Classification:
Endoacidic Self-Mulching Red 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: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Cenchrus ciliaris, Salsola kali
Mid Strata - , , . *Species includes - Enchylaena tomentosa
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Acacia harpophylla, Casuarina cristata

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, angular tabular, Substrate material

Profile Morphology

A11	0 - 0.04 m	Reddish brown (5YR4/4-Moist); Pinkish grey (7.5YR7/2-Dry); ; Light medium clay; Strong grade of structure, 2-5 mm, Granular; Dry; 2-10%, fine gravelly, 2-6mm, subrounded, Substrate material, coarse fragments; Field pH 6.6 (pH meter); Clear change to -
A12	0.04 - 0.1 m	Dark brown (7.5YR3/3-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Clear change to -
B21	0.1 - 0.2 m	Brown (7.5YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Clear change to -
B22	0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Field pH 8.7 (pH meter); Clear change to -
B23	0.3 - 0.38 m	Reddish brown (5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; Clear change to -
B24	0.38 - 0.6 m	Brown (7.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.8 (pH meter);
	0.6 - 0.7 m	Brown (7.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations;
	0.7 - 0.9 m	Brown (7.5YR5/4-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Mudstone, coarse fragments; Field pH 7 (pH meter); Gradual change to -

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B25	0.9 - 1.2 m	Strong brown (7.5YR5/5-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Mudstone, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Veins; Field pH 6.5 (pH meter); Gradual change to -
B26	1.2 - 1.5 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Mudstone, coarse fragments; Field pH 5.3 (pH meter); Clear
B27	1.5 - 1.8 m	Yellowish brown (10YR5/5-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; 2-10%, medium gravelly, 6-20mm, subangular, Mudstone, coarse fragments;

Morphological Notes

Observation Notes

AL = IRONSTONE GRAVEL.LAYERS RE NUMBERED 12/10/92

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 - 0.04	7.9H	0.074B	25.2K	4.3	3.5	0.2	2.4D			
0.04 - 0.1	8.2H	0.031B	21.3K	4.4	2.1	0.5	7.3D			
0.1 - 0.2	8.3H	0.031B	19.2K	5.5	1.4	1	8.4D			
0.2 - 0.3	8.7H	0.024B	22.2K	7.2	1.1	1.6	4.4D			
0.3 - 0.38										
0.38 - 0.6	8.5H	0.22B	19.8K	10.8	0.7	4.9	1.8D			
0.7 - 0.9	5.1H	0.5B	13.4K	10.7	0.5	6.4	6.6D			
0.9 - 1.2	4.5H	0.45B	10.9K	10.9	0.4	7.7	11.4D			
1.5 - 1.8	4.3H	0.51B	9.3K	11	0.6	8.3	11.9D			

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 - 0.04	0.43C	2.81A	85B	0.059F	0.317B	0.52B			4C	32	18	37
0.04 - 0.1	0.04C	1.03A	8B	0.031F	0.135B	0.44B			2C	29	16	48
0.1 - 0.2	0.04C	0.8A	5B	0.026F	0.1B	0.39B			3C	25	17	53
0.2 - 0.3	0.04C	0.65A	6B	0.024F	0.094B	0.35B			1C	28	14	56
0.3 - 0.38									1C	27	29	41
0.38 - 0.6	0.26C			0.017F	0.063B	0.3B			1C	22	27	47
0.7 - 0.9				0.018F	0.06B	0.26B			1C	19	18	60
0.9 - 1.2				0.017F	0.067B	0.26B			1C	18	17	62
1.5 - 1.8				0.012F	0.069B	0.25B			1C	23	14	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 - 0.04									
0.04 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.38									
0.38 - 0.6									
0.7 - 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