Project Name: **Regional**
Project Code: **REG** **Site ID:** **T451** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: C.D. Smith
Date Desc.: 02/11/84
Map Ref.: Sheet No. : 8061 1:100000
Northing/Long.: 145.938888888889
Easting/Lat.: -18.0777777777778
Locality: Sampled by DPI:
Elevation: <1 metres
Rainfall: 0
Runoff: Very slow
Drainage: Well drained

Geology

ExposureType: No Data
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry):

Erosion: Stable, No sheet erosion (sheet)

Soil Classification

Australian Soil Classification:
Acidic Regolithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Um
Great Soil Group: No suitable group

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark yellowish brown (10YR4/4-Moist); Pale brown (10YR6/3-Dry); ; Loam; Strong grade of structure, 5-10 mm, Cast; Few, very fine (0-1mm) roots; Diffuse change to -
B21	0.1 - 0.2 m	Brownish yellow (10YR6/6-Moist); ; Fine sandy loam; Massive grade of structure; Few, very fine (0-1mm) roots;
	0.2 - 0.3 m	Brownish yellow (10YR6/6-Moist); ; Fine sandy loam; Massive grade of structure; Few, very fine (0-1mm) roots;
	0.3 - 0.6 m	Brownish yellow (10YR6/6-Moist); ; Fine sandy loam; Massive grade of structure; Few, very fine (0-1mm) roots;
	0.6 - 0.9 m	Brownish yellow (10YR6/6-Moist); ; Fine sandy loam; Massive grade of structure; Few, very fine (0-1mm) roots;
	0.9 - 1.15 m	Brownish yellow (10YR6/6-Moist); ; Fine sandy loam; Massive grade of structure; Few, very fine (0-1mm) roots; Gradual change to -
D1	1.15 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 10YR72, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Clay loam, fine sandy (Light); Weak grade of structure, 5-10 mm, Angular blocky; Few, very fine (0-1mm) roots;
	1.2 - 1.5 m	Brownish yellow (10YR6/6-Moist); , 10YR72, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Clay loam, fine sandy (Light); Weak grade of structure, 5-10 mm, Angular blocky; Few, very fine (0-1mm) roots;
	1.5 - 1.6 m	Brownish yellow (10YR6/6-Moist); , 10YR72, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Clay loam, fine sandy (Light); Weak grade of structure, 5-10 mm, Angular blocky; Few, very fine (0-1mm) roots; Diffuse change to -
D2	1.6 - 1.9 m	Brownish yellow (10YR6/6-Moist); , 10YR72, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Clay loam, fine sandy (Heavy); Moderate grade of structure, 5-10 mm, Angular blocky; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

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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 - 0.1	4.6A	0.05A	0.48B	0.44	0.13	0.19	1.83F	5C		3.80
0.1 - 0.2	4.8A	0.05A	0.09B	0.08	0.01	0				
0.2 - 0.3	4.8A	0.02A	0.26B	0.09	0.03	0.17	1.59D	3.2J		5.31
0.6 - 0.9	5.2A	0.01A	0.5B	0.61	0.03	0.18	1.09D	2.8J		6.43
1.2 - 1.5	5.1A	0.01A	0.31B	0.73	0.02	0.13	1.83D	3.6J		3.61
1.6 - 1.9	5.1A	0.01A					2.28D	5.2J		

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 - 0.1		1.83A	16B		0.12A			0	15A	48	13	24
0.1 - 0.2								0	16A	48	13	23
0.2 - 0.3		0.52E			0.04B			0	16A	52	12	19
0.6 - 0.9								0	20A	52	13	15
1.2 - 1.5		0.22E			0.02B			0	8A	57	12	23
1.6 - 1.9								0	4A	54	14	28

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 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.6 - 0.9									
1.2 - 1.5									
1.6 - 1.9									

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Laboratory Analyses Completed for this profile

12B1_CU	Ammonium bicarbonate/EDTA - extractable copper
12B1_ZN	Ammonium bicarbonate/EDTA - extractable zinc
13_NR_FE	Extractable Fe(%) - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5_NR	Water soluble Chloride - Cl(%) - Not recordede
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)