Project Name: **Regional**
Project Code: **REG** **Site ID:** **T75** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: R.F. Isbell
Locality: 2.2KM south west of Tadpole Creek:18.9KM south of Coen River on Pollappa Road:
Date Desc.: 22/07/68
Elevation: 213 metres
Map Ref.: Sheet No. : 7569 1:100000
Rainfall: 1143
Northing/Long.: 143.0625
Runoff: Very slow
Easting/Lat.: -14.0833333333333
Drainage: No Data

Geology

ExposureType: Auger boring
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: TQs
Substrate Material: Auger boring, 1.3 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Pattern Type: Alluvial fan
Morph. Type: No Data
Relief: 21 metres
Elem. Type: Plain
Slope Category: No Data
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Melanic Regolithic Chernic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc2.21
Great Soil Group: Siliceous sand

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 1.01-3m, Sparse. *Species includes - Heteropogon triticeus, Sorghum plumosum
Mid Strata - Tree, 0.51-1m, Sparse. *Species includes - Acacia species
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus tetrodonta, Eucalyptus dichromophloia

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, , Quartz

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewClear change to -
A12	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); Grey (10YR5/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewGradual change to -
A13	0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); Greyish brown (10YR5/2-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewGradual change to -
A21	0.3 - 0.6 m	Greyish brown (10YR5/2-Moist); Light brownish grey (10YR6/2-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Gradual change to -
A22	0.6 - 0.9 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Gradual change to -
A2	0.9 - 1.2 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); ; Coarse sand; Single grain grade of structure; Loose consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Nodules; Gradual change to -
BC	1.2 - 1.3 m	Brownish yellow (10YR6/5-Moist); ; Coarse sand; Single grain grade of structure; Loose consistence; 20-50%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Nodules;
	1.3 - 1.6 m	;

Morphological Notes

Layer of waterworn quartz gravel:GV stopped auger:

Observation Notes

90-130CM DEPTH FEW HARDENED DYB LS NODULES OFTEN IRON STAINED:

Site Notes

COEN RIVER

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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	6A	0.005C	1.35B	0.65	0.04	2.8				
0.1 - 0.2	6A	0.005C	0.5B	0.45	0.04	3				
0.2 - 0.3	6A	0.005C								
0.3 - 0.6	6A	0.005C	0.15B	0.15	0.03	0.7				
0.6 - 0.9	6.1A	0.004C								
0.9 - 1.2	6.1A	0.007C	0.1B	0.15	0.03	1.4				

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		0.65A	<1A 7B	0.006A	0.023A	0.047A		10	73C	20	2	4
0.1 - 0.2		0.46A	<1A 7B	0.005A	0.016A	0.062A		16	86C	8	2	4
0.2 - 0.3								21				
0.3 - 0.6				0.006A	0.011A	0.043A		16	87C	8	2	4
0.6 - 0.9								21				
0.9 - 1.2		0.02A		0.008A	0.002A	0.076A		20	72C	13	2	4

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									
0.3 - 0.6									
0.6 - 0.9									
0.9 - 1.2									

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_NR_CU	Total element - Cu(mg/kg) - Not recorded
12_NR_ZN	Total element - Zn(mg/kg) - 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
17A1	Total potassium - X-ray fluorescence
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
9H_NR	Posphate retention % - Not recorded
P10_GRAV	Gravel (%)
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