Project Name: **Regional**
Project Code: **REG** **Site ID:** **T308** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Date Desc.: 11/11/81
Map Ref.: Sheet No. : 7965 1:100000
Northing/Long.: 145.466666666667
Easting/Lat.: -16.2666666666667
Locality:
Elevation: 15 metres
Rainfall: 0
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Soil pit
Geol. Ref.: Dch
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Fan
Slope: 3 %
Pattern Type: Alluvial fan
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Dystrophic Red Ferrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Gn3.11
Great Soil Group: Krasnozem

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments: 10-20%, cobbly, 60-200mm, subrounded, Basalt

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Cast; Smooth-ped fabric; Dry; Very firm consistence; 20-50%, cobbly, 60-200mm, Basalt, coarse fragments; ManyDiffuse change to -
B11	0.1 - 0.2 m	Reddish brown (5YR4/3-Moist); ; Light clay (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Common
B12	0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; Diffuse change to -
B2	0.3 - 0.45 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence;
B2	0.45 - 0.6 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; 20-50%, cobbly, 60-200mm, Basalt, coarse fragments;
B2	0.6 - 0.8 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; 50-90%, cobbly, 60-200mm, Basalt, coarse fragments;

Morphological Notes

Observation Notes

THE GRAVELS ARE BASIC VOLCANICS FROM HODGKINSON FORMATION

Site Notes

DAINTREE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.6A	0.086A	6.7H	2.14	0.35	0.19	0.3F	9.02A	9.7F	2.11
								11C		1.73
0.1 - 0.2	5.6A	0.059A								
0.2 - 0.3	5.8A	0.023A	1.08H	0.64	0.15	0.07	0.2F	2.69A	2.1F	2.60
								3C		2.33
0.3 - 0.45	5.9A	0.017A								
0.45 - 0.6	5.6A	0.068A	0.66H	0.57	0.14	0.05	0.3F	2.13A	1.7F	2.35
								2C		2.50
0.6 - 0.8	5.8A	0.014A								

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		2.65D	22B	0.095A	0.48A	1.12A		32	13A	17	35	35
0.1 - 0.2		0.92D	8B		0.16A							
0.2 - 0.3		0.42D	9B		0.08A			13	12A	18	34	36
0.3 - 0.45			14B									
0.45 - 0.6			14B	0.047A		1.32A		8	15A	21	28	35
0.6 - 0.8			30B									

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 - 0.45									
0.45 - 0.6									
0.6 - 0.8									

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12_HF_CU	Total element - Cu(mg/kg) - HF/HClO4 Digest
12_HF_FE	Total element - Fe(%) - HF/HClO4 Digest
12_HF_MN	Total element - Mn(mg/kg) - HF/HClO4 Digest
12_HF_ZN	Total element - Zn(mg/kg) - HF/HClO4 Digest
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	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
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
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 (%)