Project Name: **Regional**
Project Code: **REG** **Site ID:** **T381** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: M.D. Laffan
Date Desc.: 26/09/83
Map Ref.: Sheet No. : 8063 1:100000
Northing/Long.: 145.713333333333
Easting/Lat.: -17.1583333333333
Locality:
Elevation: 320 metres
Rainfall: 1800
Runoff: No Data
Drainage: Rapidly drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: PGM
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Granite

Land Form

Rel/Slope Class: Very steep hills 90-300m 56-100%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 60 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Basic Paralithic Bleached 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. Natural

Vegetation:

Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.1 m	Very dark brown (10YR2/2-Moist); Mottles; Mottles; Loamy sand; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Dry; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, reoriented, Sand, coarse fragments; Common, fine (1-2mm) roots; Gradual change to -
AB	0.1 - 0.2 m	Dark brown (10YR3/3-Moist); Very pale brown (10YR7/3-Dry); Mottles; Mottles; Loamy coarse sand; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, reoriented, Sand, coarse fragments; Common, fine (1-2mm) roots; Gradual change to -
B1	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); Mottles; Mottles; Loamy sand; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, reoriented, Sand, coarse fragments; Few, fine (1-2mm) roots;
B1	0.3 - 0.6 m	Yellowish brown (10YR5/4-Moist); Mottles; Mottles; Loamy sand; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, reoriented, Sand, coarse fragments; Few, fine (1-2mm) roots; Diffuse change to -
C11	0.6 - 0.9 m	Light yellowish brown (2.5Y6/4-Moist); Mottles; Mottles; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 20-50%, fine gravelly, 2-6mm, angular, reoriented, Sand, coarse fragments; Diffuse change to -
C12	0.9 - 1.2 m	Pale yellow (2.5Y7/4-Moist); Mottles; Mottles; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 20-50%, fine gravelly, 2-6mm, angular, reoriented, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint;
C12	1.2 - 1.5 m	Pale yellow (2.5Y7/4-Moist); Mottles; Mottles; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 20-50%, fine gravelly, 2-6mm, angular, reoriented, Sand, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint;

Morphological Notes

Observation Notes

RAINFOREST 16F:PARENT MATERIAL WEAKLY WEATHERED GRANITE:85-100CM APPEARS DISAGGREGATED GRANITE ROCK:

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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	6.5A	0.04A	6.4H	1.1	0.3	0.09	<0.05F	5.2A	7.9F	1.73
0.1 - 0.2	6.3A	0.044A								
0.2 - 0.3	6.1A	0.035A								
0.3 - 0.6	6.5A	0.011A	0.89H	1.2	0.28	0.07	<0.05F	2.3A	2.5F	3.04
0.6 - 0.9	6.4A	0.008A								
0.9 - 1.2	6.3A	0.008A								
1.2 - 1.5	6.2A	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		2.53C	4B	0.012A	0.1A	4.48A		55	50A	21	16	13
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.6		0.24C		0.006A	0.03A	5.28A		35	55A	21	16	8
0.6 - 0.9												
0.9 - 1.2								42	60A	21	13	7
1.2 - 1.5												

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									
1.2 - 1.5									

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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
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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
6B3	Total organic carbon - high frequency induction furnace, infrared
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 (%)