Project Name: **Regional**
Project Code: **REG** **Site ID:** **T210** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By:	G.G. Murtha	**Locality:**	.5KM on logging track:2.2KM along Forestry Road:
Date Desc.:	18/10/73	**Elevation:**	60 metres
Map Ref.:	Sheet No. : 8162 1:100000	**Rainfall:**	3000
Northing/Long.:	146.066666666667	**Runoff:**	Rapid
Easting/Lat.:	-17.9	**Drainage:**	Well drained

Geology

ExposureType:	Existing vertical exposure	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	PZB	**Substrate Material:**	Existing vertical exposure, 1.5 m deep,Metamorphic rock (unidentified)

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-	**Pattern Type:**	Hills
Morph. Type:	Mid-slope	**Relief:**	30 metres
Elem. Type:	Hillslope	**Slope Category:**	Moderately inclined
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Dystrophic Brown Dermosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn3.74
Great Soil Group: Xanthozem

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Very firm consistence; Abundant, fine (1-2mm) roots; Gradual change to -
A2	0.1 - 0.2 m	Brown (10YR5/3-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Very firm consistence; 2-10%, Metamorphic rock (unidentified), coarse fragments; Many, fine (1-2mm) roots;
A2	0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Very firm consistence; 10-20%, Metamorphic rock (unidentified), coarse fragments; Diffuse change to -
B1	0.3 - 0.6 m	Strong brown (7.5YR5/6-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 20-50%, Metamorphic rock (unidentified), coarse fragments;
B2	0.6 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 20-50%, Metamorphic rock (unidentified), coarse fragments; Diffuse change to -
B2	0.9 - 1.2 m	Reddish yellow (5YR6/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 20-50%, Metamorphic rock (unidentified), coarse fragments; Diffuse change to -
BC	1.2 - 1.5 m	Reddish yellow (5YR6/6-Moist); , 10YR76, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay (Heavy); Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 50-90%, Metamorphic rock (unidentified), coarse fragments;

Morphological Notes

Observation Notes

Site Notes

MT TAM-O`SHANT

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.2A	0.083A	0.1H	0.59	0.16	0.21	9.6F	4.4A	10.7F	4.77
0.1 - 0.2	4.2A	<0.05A	0.1H	0.43	0.1	0.13	7.4F	4.5A	8.2F	2.89
0.2 - 0.3	4.4A	<0.05A								
0.3 - 0.6	4.5A	<0.05A	0.05H	0.06	0.03	0.08	5F	3.5A	5.2F	2.29
0.6 - 0.9	4.6A	<0.05A								
0.9 - 1.2	4.6A	<0.05A	0.04H	0.15	0.01	0.06	5.5F	4.3A	5.8F	1.40
1.2 - 1.5	4.6A	<0.05A								

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		5.44D	30B	0.05A	0.39A	3.08A		7	15A	21	25	39
0.1 - 0.2		2.52D						10	16A	21	26	39
0.2 - 0.3		1.6D	14B		0.21A			8	23A	20	22	35
0.3 - 0.6		0.91D	7B	0.037A	0.16A	3.42A		3	9A	21	27	44
0.6 - 0.9												
0.9 - 1.2				0.036A		4.32A		5	10A	20	35	39
1.2 - 1.5												

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
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_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
5A2	Chloride - 1:5 soil/water extract, automated colour
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)
MIN_EC	Exchange Capacity - Minerology
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 (%)
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction