Project Name: **Regional**
Project Code: **REG** **Site ID:** **T252** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Date Desc.: 11/08/77
Map Ref.: Sheet No. : 8057 1:100000
Northing/Long.: 145.883333333333
Easting/Lat.: -20.225
Locality: 18M south east of M.E.P. plots:
Elevation: No Data
Rainfall: 630
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kandosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Gn2.11
Great Soil Group: Red earth

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); Reddish brown (5YR4/4-Dry); ; Sandy loam; Massive grade of structure; Dry; Strong consistence; Many, fine (1-2mm) roots; Gradual change to -
B11	0.1 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); Dark red (2.5YR3/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Dry; Very firm consistence; Common, fine (1-2mm) roots; Diffuse change to -
B12	0.2 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); Dark red (2.5YR3/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Dry; Very firm consistence; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Diffuse change to -
B2	0.3 - 0.45 m	Dark red (2.5YR3/6-Moist); Dark red (2.5YR3/6-Dry); ; Sandy light clay; Massive grade of structure; Dry; Very firm consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Nodules; Few, fine (1-2mm) roots;
B2	0.45 - 0.6 m	Dark red (2.5YR3/6-Moist); Dark red (2.5YR3/6-Dry); ; Sandy light clay; Massive grade of structure; Dry; Very firm consistence; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Nodules; Clear change to -
B2	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Sandy light clay; Massive grade of structure; Dry; Weak consistence; 10-20%, Quartz, coarse fragments; Many (20 - 50 %), Argillaceous, Coarse (6 - 20 mm), Nodules; Clear change to -
	0.9 - 1.2 m	Dark red (2.5YR3/8-Moist); , 7.5YR66, 2-10% , 5-15mm, Prominent; , 2-10% , 5-15mm, Prominent; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong consistence; Common (10 - 20 %), Other, Medium (2 -6 mm), Laminae;

Morphological Notes

Observation Notes

Site Notes

REDLANDS

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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	6.3A	<0.05A	1.6B	0.78	0.11					
0.1 - 0.2			0.96B	0.38	0.08	0.07				
0.2 - 0.3	6.3A	<0.05A	0.64B	0.5	0.06	0.04				
0.45 - 0.6	6.1A	<0.05A	0.48B	1.25	0.06	0.04				
0.9 - 1.2	6.1A	<0.05A	0.16B	1.8	0.02	0.1				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt	Clay
										%		
0 - 0.1		0.57D	1B		0.041A			1	44A	39	7	9
0.1 - 0.2								1	44A	39	6	12
0.2 - 0.3		0.24D	3B		0.033A			1	44A	33	5	18
0.45 - 0.6								6	35A	25	4	36
0.9 - 1.2								17	32A	20	8	41

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									
0.45 - 0.6									
0.9 - 1.2									

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Laboratory Analyses Completed for this profile

12_HF_CU	Total element - Cu(mg/kg) - 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_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
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
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 (%)