Project Name: **Regional**
Project Code: **REG** **Site ID:** **T195** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Date Desc.: 27/11/70
Map Ref.: Sheet No. : 8258 1:100000
Northing/Long.: 146.705555555556
Easting/Lat.: -19.5458333333333
Locality: .6KM east of Springs Mill on "Woodlands":
Elevation: 107 metres
Rainfall: 0
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Undisturbed soil core
Geol. Ref.: Cpb
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Undisturbed soil core, 0.9 m deep,Granite

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 7 %
Pattern Type: Rises
Relief: 15 metres
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.22
Great Soil Group: Yellow podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus, Stylosanthes humilis

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Massive grade of structure; Moderately moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
A2	0.1 - 0.2 m	Brown (7.5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Sandy loam (Light); Massive grade of structure; Moderately moist; Weak consistence; 20-50%, Quartz, coarse fragments;
A2	0.2 - 0.24 m	Brown (7.5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Sandy loam (Light); Massive grade of structure; Moderately moist; Weak consistence; 20-50%, Quartz, coarse fragments; Abrupt change to -
B2	0.24 - 0.3 m	Yellowish brown (10YR5/6-Moist); , 5YR58, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
B2	0.3 - 0.45 m	Yellowish brown (10YR5/6-Moist); , 5YR48, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
B3	0.45 - 0.6 m	Yellowish brown (10YR5/6-Moist); , 5YR48, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments;
BC	0.6 - 0.75 m	Pale yellow (2.5Y8/4-Moist); , 10YR81; , 10YR56; Sandy medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 10-20%, Quartz, coarse fragments; Diffuse change to -
C	0.75 - 0.9 m	;

Morphological Notes

C Weathered granite

Observation Notes

10-20CM SOME MIXING OF A1 & A2 MATERIAL

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Site Notes
ROSS R.

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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	6.2A	0.053A	6.8B	1.5	0.27	0.12		3.7C		3.24
0.1 - 0.2	6.5A	0.029A	2.8B	0.8	0.16	0.12		7.9C		1.52
0.2 - 0.24	6.8A	0.029A								
0.24 - 0.3	6.5A	0.065A	6.3B	3.1	0.35	0.21		9.1C		2.31
0.3 - 0.45	6.4A	0.047A	7.1B	3.6	0.31	0.19		4.7C		4.04
0.45 - 0.6	6.7A	0.023A								
0.6 - 0.75	6.7A	0.023A								
0.75 - 0.9	6.7A	0.02A								

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		1.34D	<2A 6B	0.013A	0.08A	3.1A		14	45A	38	6	9
0.1 - 0.2		0.42D	<2A 3B	0.007A	0.04A	3.1A		22	56A	31	5	7
0.2 - 0.24												
0.24 - 0.3		0.36D	<2B	0.011A		2A		14	32A	14	5	49
0.3 - 0.45		0.32D	<2B	0.011A		1.7A		14	26A	11	8	56
0.45 - 0.6												
0.6 - 0.75			<2B	0.006A		2A						
0.75 - 0.9												

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 - 0.24									
0.24 - 0.3									
0.3 - 0.45									
0.45 - 0.6									
0.6 - 0.75									
0.75 - 0.9									

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
13C1_AL	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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
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 (%)