Project Name: GYC
Project Code: GYC **Site ID:** B526 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 19/11/63
Map Ref.: Sheet No. : 9445 1:100000
Northing/Long.: 152.654166666667
Easting/Lat.: -26.2138888888889
Locality:
Elevation: 80 metres
Rainfall: 1143
Runoff: Rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: PGg
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.51 m deep,Shale

Land Form

Rel/Slope Class: No Data
Morph. Type: Simple-slope
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Low hills
Relief: 30 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Magnesic Mottled-Subnatric Red Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr3.41
Great Soil Group: Soloth

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus propinqua, Eucalyptus species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Weak grade of structure, 2-5 mm, Subangular blocky; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, Shale, coarse fragments; Field pH 5.2 (pH meter); Many, fine (1-2mm) roots; Clear change to -
A21	0.06 - 0.11 m	Brown (10YR5/3-Moist); ; Fine sandy loam; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A22	0.11 - 0.2 m	Brown (10YR5/3-Moist); Very pale brown (10YR7/3-Dry); ; Loam (Heavy); Massive grade of structure; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots; Clear change to -
B2	0.2 - 0.36 m	Dark reddish brown (2.5YR3/4-Moist); , 10YR62, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Shale, coarse fragments; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots; Clear change to -
B3	0.36 - 0.51 m	Light brownish grey (10YR6/2-Moist); , 2.5YR45, 20-50% , 0-5mm, Distinct; , 10YR66, 20-50% , 0-5mm, Distinct; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, Shale, coarse fragments; Field pH 5.3 (pH meter); Clear change to -
C	0.51 - 0.71 m	; Field pH 4.7 (pH meter);

Morphological Notes

C Weathered shale (2.5Y9/2) with (10YR5/2) LMC veins.

Observation Notes

Site Notes

GYMPIE

Project Name: GYC
Project Code: GYC **Site ID:** B526 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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 - 0.06	5.2H	0.01B	0.31K	1.2	0.59	0.12	18D			
0.06 - 0.11	6H	0.02B	0.1K	1.1	0.36	0.12				
0.11 - 0.2	5.5H	0.01B	0.1K	1.4	0.38	0.15				
0.2 - 0.36	5.5H	0.01B	0.02K	3.8	0.23	0.52	16.5D			
0.36 - 0.51	5.3H	0.02B	0.21K	4.2	0.19	1.5	10.3D			
0.51 - 0.71	4.7H	0.04B								

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 - 0.06		1.95A		0.018F	0.152B			5	18C	34	26	17
0.06 - 0.11												
0.11 - 0.2												
0.2 - 0.36		0.23A		0.008F				2	4C	13	19	66
0.36 - 0.51												
0.51 - 0.71												

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 - 0.06									
0.06 - 0.11									
0.11 - 0.2									
0.2 - 0.36									
0.36 - 0.51									
0.51 - 0.71									

Project Name: **GYC**
Project Code: **GYC** **Site ID:** **B526** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded