

Project Name: GYC
Project Code: GYC **Site ID:** B684 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	29/10/69	Elevation:	137 metres
Map Ref.:	Sheet No. : 9445 1:100000	Rainfall:	1397
Northing/Long.:	152.839444444444	Runoff:	Rapid
Easting/Lat.:	-26.138888888889	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Rlk	Substrate Material:	Undisturbed soil core, 1 m deep, Phyllite

Land Form

Rel/Slope Class:	Steep hills 90-300m 32-56%	Pattern Type:	Hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	14 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Haplic Mesotrophic Red Chromosol	Mapping Unit:	N/A
ASC Confidence:	No analytical data and little or no knowledge of this soil.	Principal Profile Form:	Dr2.21
		Great Soil Group:	Red podzolic soil

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Mid Strata - , , . *Species includes - Casuarina littoralis, Acacia cunninghamii
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Loam (Heavy); Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 2-10%, Phyllite, coarse fragments;
A12	0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Polyhedral; Moist; Weak consistence; 2-10%, Phyllite, coarse fragments;
A2	0.2 - 0.3 m	Reddish brown (5YR4/3-Moist); ; Clay loam (Heavy); Strong grade of structure, 2-5 mm, Polyhedral; Moist; Weak consistence; 10-20%, Phyllite, coarse fragments; Sharp change to -
B21	0.3 - 0.46 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Firm consistence; 0-2%, Phyllite, coarse fragments;
B22	0.46 - 0.7 m	Red (2.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Firm consistence;
B3	0.7 - 0.9 m	Yellowish red (5YR5/6-Moist); , 10R36, 10-20% , 15-30mm, Prominent; , 2.5Y71, 10-20% , 15-30mm, Prominent; Medium heavy clay; Weak grade of structure, Polyhedral; Moist; Very firm consistence; 0-2%, Phyllite, coarse fragments;
	0.9 - 1.1 m	Dark red (10R3/6-Moist); , 2.5Y71, 10-20% , 15-30mm, Prominent; , 10YR56, 10-20% , 15-30mm, Prominent; Medium heavy clay; , Polyhedral; Very firm consistence;
	1.1 - 1.3 m	Light grey (2.5Y7/1-Moist); , 5YR48, 10-20% , 15-30mm, Prominent; , 10R36, 10-20% , 15-30mm, Prominent; Medium heavy clay; , Polyhedral; Very firm consistence;
	1.3 - 1.8 m	Light grey (2.5Y7/1-Moist); , 10R36, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium heavy clay; , Polyhedral; Firm consistence;
	1.8 - 2 m	Light brownish grey (2.5Y6/3-Moist); , 5YR46, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Silty medium clay (Light); , Polyhedral; Firm consistence;

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.5
0.5 - 0.7
0.7 - 0.9
0.9 - 1.1
1.1 - 1.3
1.3 - 1.8
1.8 - 2

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.5
0.5 - 0.7
0.7 - 0.9
0.9 - 1.1
1.1 - 1.3
1.3 - 1.8
1.8 - 2

[illegible]

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.5
0.5 - 0.7
0.7 - 0.9
0.9 - 1.1
1.1 - 1.3
1.3 - 1.8
1.8 - 2

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Laboratory Analyses Completed for this profile