

Project Name: GYC
Project Code: GYC **Site ID:** B531 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	21/11/63	Elevation:	185 metres
Map Ref.:	Sheet No. : 9445 1:100000	Rainfall:	1520
Northing/Long.:	152.819444444444	Runoff:	Very rapid
Easting/Lat.:	-26.2161111111111	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	RW	Substrate Material:	Auger boring, Diorite

Land Form

Rel/Slope Class:	Steep hills 90-300m 32-56%	Pattern Type:	Hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	31.5 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Dermosol		Principal Profile Form:	Gn3.14
ASC Confidence:		Great Soil Group:	Euchrozem
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tussock grass, 12.01-20m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Very dark brown (10YR2/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Clear change to -
B1	0.08 - 0.25 m	Reddish brown (5YR4/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Common (1-5 per 0.01m2) Coarse (>5mm) macropores, Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.25 - 0.53 m	Red (10R4/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.9 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B31	0.53 - 0.79 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.8 (pH meter); Gradual change to -
B32	0.79 - 1.27 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; Field pH 6 (pH meter); Gradual change to -
C	1.32 - 1.83 m	Red (10R4/6-Moist); , 2.5Y44; Loam; Massive grade of structure; Moist; Weak consistence; Field pH 6.4 (pH meter); Diffuse change to -
C	1.83 - 2.03 m	; Field pH 6.7 (pH meter);

Morphological Notes

C Speckled OLB; W; GR; BL soft weathered granodiorite.

Observation Notes

VIRGIN VEGETATION WAS 'VINE SCRUB':

Site Notes

MT. TIETSEL

Observation ID: 1

Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		dS/m	Ca	Mg	K	Na			Acidity Cmol (+)/kg
0 - 0.08	6H	0.03B	5.6K	1.9	1	0.17	10.4D		
0.08 - 0.25	6H	0.02B	6.2K	2.2	0.29	0.13	5.3D		
0.25 - 0.53	5.9H	0.02B	4.3K	4.9	0.08	0.15	12D		
0.53 - 0.79	5.8H	0.01B	2.9K	9.1	0.13	0.76	6.8D		
0.79 - 1.27	6H	0.01B							
1.32 - 1.83	6.4H	0.01B							
1.83 - 2.03	6.7H	0.01B							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		2.12A	10C	0.046F	0.292B				26C	28	9	29
0.08 - 0.25												
0.25 - 0.53		0.61A		0.023F					14C	17	11	56
0.53 - 0.79												
0.79 - 1.27												
1.32 - 1.83												
1.83 - 2.03				0.041F								

[illegible]

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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 recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
MIN_EC	Exchange Capacity - Minerology
MIN_NR_K2O	Kaolin minerals
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
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_Vm	Vermiculite - X-Ray Diffraction