Project Name: GYC
Project Code: GYC **Site ID:** B543 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: C.H. Thompson
Date Desc.: 28/10/64
Map Ref.: Sheet No. : 9445 1:100000
Northing/Long.: 152.925
Easting/Lat.: -26.475
Locality:
Elevation: 45 metres
Rainfall: 1170
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Rv
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.53 m deep,No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: 0 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Subnatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.31
Great Soil Group: Soloth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

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

Tall Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Very weak consistence; Field pH 5.1 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A2	0.11 - 0.15 m	Dark greyish brown (10YR4/2-Moist); , 10YR54, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Very weak consistence; 0-2%, angular, Quartz, coarse fragments; Field pH 5.4 (pH meter); Many, fine (1-2mm) roots; Sharp change to -
B2	0.15 - 0.3 m	Brown (7.5YR5/2-Moist); , 10YR61, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 100-200 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Field pH 5.8 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B3	0.3 - 0.53 m	Pale brown (10YR6/3-Moist); , 7.5YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Field pH 5.7 (pH meter); Diffuse change to -
C1	0.53 - 0.76 m	Pale brown (10YR6/3-Moist); , 7.5YR58, 10-20% , 15-30mm, Prominent; , 10YR81, 10-20% , 15-30mm, Prominent; Light medium clay; Massive grade of structure; Moist; Firm consistence; Field pH 5.1 (pH meter); Diffuse change to -
C2	0.76 - 1.07 m	; Field pH 5.3 (pH meter);

Morphological Notes

C2 YB; B; W. Clayey to loamy weathered tonalite.

Observation Notes

ORIGINAL VEGETATION WAS MID-HIGH WOODLAND OF EUTER,TRCON,EUINT:PATCHES OF BLEACH AT BASE OF A2 HORIZON:

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.1H	0.02B	1.3K	2.5	0.25	0.11	10.2D			
0.11 - 0.15	5.4H	0.01B								
0.15 - 0.3	5.8H	0.01B	2.6K	8.1	0.15	1.3	13.7D			
0.3 - 0.53	5.7H	0.02B	2.8K	9.7	0.16	2.8	19D			
0.53 - 0.76	5.1H	0.08B	3.6K	14.8	0.11	5.3	17D			
0.76 - 1.07	5.3H	0.06B								

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		2A	1C	0.019F	0.17B				27C	39	16	14
0.11 - 0.15		1.22A		0.012F	0.106B				31C	40	15	13
0.15 - 0.3		0.47A		0.005F	0.043B			0	18C	25	10	47
0.3 - 0.53		0.28A		0.003F	0.028B				14C	26	12	47
0.53 - 0.76				0.004F								
0.76 - 1.07			1C	0.006F								

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										
0.11 - 0.15										
0.15 - 0.3										
0.3 - 0.53										
0.53 - 0.76										
0.76 - 1.07										

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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 recordede
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_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
XRD_C_Fd	Feldspar - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction