Project Name: GYC
Project Code: GYC **Site ID:** B522 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 18/11/63
Map Ref.: Sheet No. : 9445 1:100000
Northing/Long.: 152.5
Easting/Lat.: -26.2122222222222
Locality:
Elevation: 90 metres
Rainfall: 1016
Runoff: Rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: C-Pa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.99 m deep,Shale

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: No Data
Slope: 6.12 %
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:
Sodic Mesotrophic Red Dermosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr2.41
Great Soil Group: Soloth

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Brown (7.5YR4/3-Moist); ; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 5.7 (pH meter); Clear change to -
A2	0.08 - 0.2 m	Brown (7.5YR5/4-Dry); , 10YR72, 20-50% , 0-5mm, Faint; , 5YR56, 20-50% , 0-5mm, Faint; Clay loam; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 5.6 (pH meter); Clear change to -
A3	0.2 - 0.27 m	Brown (10YR5/3-Moist); , 5YR36, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Light clay (Light); Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 6.2 (pH meter); Clear change to -
B21	0.27 - 0.38 m	Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Fine, (0 - 5) mm crack; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 5.9 (pH meter); Clear change to -
B22	0.38 - 0.71 m	Dark red (2.5YR3/6-Moist); , 10YR62, 0-2% , 0-5mm, Faint; , 0-2% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Shale, coarse fragments; Field pH 5.2 (pH meter); Gradual change to -
B3	0.71 - 0.99 m	Light brownish grey (2.5Y6/2-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 2.5YR46, 20-50% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Field pH 4.8 (pH meter); Gradual change to -
C	0.99 - 1.14 m	; Field pH 4.9 (pH meter);

Morphological Notes

C Mottled LbG (10YR5/6) YB (2.5Y6/2) shale with clay veins.

Observation Notes

0-20CM VERY FEW ROUNDED QUARTZ FRAGMENTS.

Site Notes

Project Name: **GYC**
Project Code: **GYC** **Site ID:** **B522** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

GLASTONBURY

Project Name: GYC
Project Code: GYC **Site ID:** B522 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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 - 0.08	5.7H	0.02B	1.8K	1.7	0.43	0.16	13.1D			
0.08 - 0.2	5.6H	0.01B	0.72K	1.9	0.15	0.36	9D			
0.2 - 0.27	6.2H	0.01B	0.21K	4.6	0.12	0.65	7.6D			
0.27 - 0.38	5.9H	0.02B	0.25K	1.3	0.26	1.8	16.3D			
0.38 - 0.71	5.2H									
0.71 - 0.99	4.8H	0.16B	0.11K	9.5	0.17	5.2	10.1D			
0.99 - 1.14	4.9H	0.16B								

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 - 0.08		1.93A	11C	630F	0.191B				12C	16	37	31
0.08 - 0.2		0.76A							12C	15	37	35
0.2 - 0.27		0.39A							12C	13	33	42
0.27 - 0.38		0.37A		410F					5C	5	17	72
0.38 - 0.71												
0.71 - 0.99									8C	10	29	53
0.99 - 1.14												

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 - 0.08									
0.08 - 0.2									
0.2 - 0.27									
0.27 - 0.38									
0.38 - 0.71									
0.71 - 0.99									
0.99 - 1.14									

Project Name: **GYC**
Project Code: **GYC** **Site ID:** **B522** **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
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
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