Project Name: GYC
Project Code: GYC **Site ID:** B523 **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.: 152.515277777778
Easting/Lat.: -26.1611111111111
Locality:
Elevation: 90 metres
Rainfall: 1270
Runoff: Rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: C-Pa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.74 m deep,Andesite

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Low hills
Relief: 46 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Epipedal Brown Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Gn3.72
Great Soil Group: Prairie soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

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

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Clay loam (Heavy); Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 6 (pH meter); Abrupt change to -
A12	0.05 - 0.11 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 5.9 (pH meter); Clear change to -
B21	0.11 - 0.28 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay (Heavy); Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.6 (pH meter); Gradual change to -
B22	0.28 - 0.56 m	Yellowish brown (10YR5/6-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (pH meter); Gradual change
B3	0.56 - 0.74 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.4 (pH meter); Gradual change to -
C	0.74 - 0.99 m	Yellowish brown (10YR5/6-Moist); , 10YR44; , 10YR62; Light clay; Massive grade of structure; 10-20%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 7.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

GLASTONBURY

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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 - 0.05	6H	0.02B	11.8K	7.5	0.58	0.21	17.6D			
0.05 - 0.11	5.9H	0.03B	9.3K	6.2	0.11	0.12	11.5D			
0.11 - 0.28	6.6H	0.01B	13.9K	10.9	0.11	0.27	14.3D			
0.28 - 0.56	7H	0.01B	16.6K	14.4	0.04	0.43	8.2D			
0.56 - 0.74	7.4H	0.01B	21.5K	19.4	0.04	0.73	2.7D			
0.74 - 0.99	7.8H	0.01B								

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 - 0.05		3.3A	2C	0.054F	0.287B			13	15C	18	23	36
0.05 - 0.11		1.93A			0.18B			6	17C	17	21	41
0.11 - 0.28		1.08A		0.03F				2	7C	11	16	65
0.28 - 0.56												
0.56 - 0.74				0.009F				4	17C	21	21	44
0.74 - 0.99												

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 - 0.05									
0.05 - 0.11									
0.11 - 0.28									
0.28 - 0.56									
0.56 - 0.74									
0.74 - 0.99									

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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
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