

Project Name: GYC
Project Code: GYC **Site ID:** B574 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	27/02/68	Elevation:	91 metres
Map Ref.:	Sheet No. : 9345 1:100000	Rainfall:	1016
Northing/Long.:	152.404166666667	Runoff:	Rapid
Easting/Lat.:	-26.221666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	C-Pa	Substrate Material:	Existing vertical exposure, 0.78 m deep, Granodiorite

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion: Minor (sheet)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Brown Chromosol		Principal Profile Form:	Dy2.22
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - Heteropogon contortus
Tall Strata - Tree, , Mid-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); ; Fine sandy loam; Massive grade of structure; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
A21	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Clayey coarse sand; Massive grade of structure; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
A22	0.2 - 0.25 m	Dark greyish brown (10YR4/2-Moist); , 10YR53; Clayey coarse sand; Massive grade of structure; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Clear change to -
B1	0.25 - 0.3 m	Yellowish brown (10YR5/4-Moist); , 10YR42; Sandy clay loam (Heavy); Weak grade of structure, Polyhedral; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abrupt change to -
B2	0.3 - 0.48 m	Strong brown (7.5YR5/6-Moist); , 10YR52, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 100-200 mm, Prismatic; 20-50 mm, Angular blocky; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Gradual change to -
B3	0.48 - 0.6 m	Yellowish brown (10YR5/6-Moist); , 10YR42, 10-20% , 0-5mm, Distinct; , 10YR61, 10-20% , 0-5mm, Distinct; Sandy medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; Gradual change to -
B3	0.6 - 0.78 m	Yellowish brown (10YR5/6-Moist); , 10YR42, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; Diffuse change to -
C	0.78 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 10YR42, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Moist; Weak consistence;
	0.9 - 1.2 m	Strong brown (7.5YR5/6-Moist); , 10YR42, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Weak consistence;

Morphological Notes

Observation Notes

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Site Notes

WOOLOOGA

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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	4.9H	0.01B	2.2K	1.7	0.29	0.01	4.7D		
0.1 - 0.2	4.8H	0.006B							
0.2 - 0.25	6.1H	0.006B							
0.25 - 0.3	6.3H	0.008B							
0.3 - 0.48	6.7H	0.01B	5.1K	7.3	0.08	0.61	4.3D		
0.48 - 0.6	6.7H	0.015B							
0.6 - 0.78	7.6H	0.016B							
0.78 - 0.9	7.7H	0.013B							
0.9 - 1.2	8.1H	0.016B							

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 - 0.1		0.9E	7C 5.1B		0.076B	2.1B			46C	32	10	12
0.1 - 0.2												
0.2 - 0.25												
0.25 - 0.3												
0.3 - 0.48		0.4E	1.1B		0.043B	1.7B			38C	20	11	30
0.48 - 0.6												
0.6 - 0.78												
0.78 - 0.9												
0.9 - 1.2						1.33B			51C	22	11	15

[illegible]

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
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
17A_NR	Total element - K(%) - 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
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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