**Project Name: GYC** 

B532 Observation ID: 1 **Project Code: GYC** Site ID:

**CSIRO** Division of Soils (QLD) **Agency Name:** 

Site Information

Desc. By: G.D. Hubble Locality: Date Desc.:

Elevation: 22/11/63 95 metres

Sheet No.: 9445 1:100000 Map Ref.: Rainfall: n

Northing/Long.: 152.748611111111 Runoff: Verv rapid -26.2291666666667 Easting/Lat.: Drainage: Rapidly drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

**Substrate Material:** Geol. Ref.: Soil pit, 1.3 m deep, Quartz porphyry Rc

Land Form

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

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification: N/A Mapping Unit: Melanic Regolithic Chernic Tenosol Principal Profile Form: Uc2.21 **ASC Confidence: Great Soil Group:** No suitable

All necessary analytical data are available.

Site Disturbance:

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

Tall Strata - Tree, , Mid-dense. \*Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

0 - 0.28 m Very dark brown (10YR2/2-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Subangular A11 blocky; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Quartz porphyry, coarse fragments; Field pH 5.8 (pH meter): Common, fine (1-2mm) roots; Gradual change to -

Dark greyish brown (10YR4/2-Moist); ; Sand (Heavy); Massive grade of structure; Few (<1 per A12 0 28 - 0 48 m 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; 10-20%, coarse gravelly,

20-60mm, Quartz porphyry, coarse fragments; Field pH 5.8 (pH meter); Few, fine (1-2mm)

roots; Gradual change to

A2 0.43 - 0.64 m Brownish yellow (10YR6/5-Moist); ; Sand; Massive grade of structure; Common (1-5 per

100mm2) Very fine (0.075-1mm) macropores, Dry, Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz porphyry, coarse fragments; Field pH 5.9 (pH meter); Few, fine (1-

2mm) roots; Clear change to -

B1 0.64 - 0.81 m Yellow (10YR7/7-Moist); ; Clayey sand; Massive grade of structure; Fine (1-2mm) macropores,

Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz porphyry, coarse fragments; Field

pH 6.1 (pH meter); Diffuse change to -

Brownish yellow (10YR6/6-Moist); , 10YR76, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, B2 0.81 - 1.3 m

Faint; Clayey sand; Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly,

2-6mm, Quartz porphyry, coarse fragments; Field pH 6 (pH meter); Diffuse change to -

Pale yellow (2.5Y7/4-Moist); , 7.5YR58, 20-50% , 0-5mm, Distinct; , 10YR52, 20-50% , 0-5mm, 1.32 - 1.6 m Distinct; Clayey sand; Massive grade of structure; Moist; Weak consistence; 0-2%, medium

gravelly, 6-20mm, Quartz porphyry, coarse fragments; Field pH 5.8 (pH meter);

**Morphological Notes** 

**Observation Notes** 

RUDIMENTARY PODZOL.

Site Notes

**GYMPIE** 

С

B532 Observation ID: 1

Project Name: GYC
Project Code: GYC Site ID: B53
Agency Name: CSIRO Division of Soils (QLD)

## **Laboratory Test Results:**

Depth	рН	1:5 EC		hangeable Vig	Cations K	I Na	Exchangeable Acidity	CEC	E	CEC	E	SP
m		dS/m	oa i	vig	K	Cmol (+)/kg					9,	6
0 - 0.28 0.28 - 0.43	5.8H 5.8H	0.01B 0.01B	1.5K	0.89	0.29	0.04	12.6D					
0.43 - 0.64 0.64 - 0.81	5.9H 6.1H	0.01B 0.01B	0.2K	1	0.15	0.09	0.88D					
0.81 - 1.3 1.32 - 1.6	6H 5.8H	0.01B 0.01B	0.02K	2.8	0.12	0.2	3.6D					
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle S	Size A FS	nalysis Silt (	
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.28 0.28 - 0.43		1.67A 0.47A	5C	0.014F	0.12	-		7	45C	30	10	11
0.43 - 0.64 0.64 - 0.81		0.11A		0.005F				10	48C	33	13	7
0.81 - 1.3 1.32 - 1.6				0.005F	=			2	39C	31	16	15
Depth	COLE	LE Gravimetric/Volumetric Water Contents K sat K unsat										
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm/h	1	mm/h	

0 - 0.28 0.28 - 0.43 0.43 - 0.64 0.64 - 0.81 0.81 - 1.3 1.32 - 1.6

**GYC Project Name:** 

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## **Laboratory Analyses Completed for this profile**

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15\_NR\_CA

15\_NR\_H

15\_NR\_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15\_NR\_NA

2A1 Air-dry moisture content

3\_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4\_NR

Water soluble Chloride - Cl(%) - Not recordede 5\_NR

Organic carbon - Walkley and Black 6A1 7\_NR 9\_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9A\_NR

P10\_GRAV Gravel (%)

P10\_NR\_C Clay (%) - Not recorded Coarse sand (%) - Not recorded P10\_NR\_CS Fine sand (%) - Not recorded P10\_NR\_FS P10\_NR\_Z Silt (%) - Not recorded