Project Name: FGR
Project Code: FGR **Site ID:** TL24 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: J.R. Sleeman
Date Desc.: 26/06/53
Map Ref.:
Northing/Long.: 144.416666666667
Easting/Lat.: -20.3333333333333
Locality: Lat. - Long. approxiamated from blue card and report.
Elevation: 575 metres
Rainfall: 533
Runoff: No Data
Drainage: Moderately well drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Basalt

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Gn3.12
Great Soil Group: Euchrozem

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

Vegetation:

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus whitei, Eucalyptus dichromophloia

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.04 m	Dark greyish brown (10YR4/2-Dry); ; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Weak consistence; Very plastic; CommonDiffuse change to -
A12	0.04 - 0.1 m	Dark brown (7.5YR3/2-Dry); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Weak consistence; Very plastic; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; CommonDiffuse change to -
B21	0.1 - 0.25 m	Dark reddish brown (5YR3/3-Dry); ; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Weak consistence; Very plastic; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; CommonDiffuse change to -
B22	0.25 - 0.38 m	Reddish brown (5YR4/3-Dry); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Very plastic; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; CommonDiffuse change to -
BC	0.38 - 0.56 m	Reddish brown (5YR4/4-Dry); ; Medium clay; Massive grade of structure; Moist; Firm consistence; Very plastic; CommonDiffuse change to -
C	0.84 - 1.06 m	Reddish brown (5YR4/4-Dry); ; Medium clay; Massive grade of structure; Moist; Firm consistence; Very plastic; CommonDiffuse change to -

Morphological Notes

Observation Notes

BASALT FLOATER IN BC HORIZON.

Site Notes

HUGHENDEN

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.04	6.7A	0.025C	18.7H	8.9	2	0.12	10.1E			
0.04 - 0.1	7A	0.013C								
0.1 - 0.25	6.8A	0.013C	15.8H	7.1	105	0.13	8.6E			
0.25 - 0.38	6.8A	0.012C								
0.38 - 0.56	6.9A	0.011C								
0.84 - 1.06	7.3A	0.013C	9.1H	5.7	0.76	0.17	6.7E			

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 - 0.04		3.4A	0.11B		0.18A				13D	12	36	32
0.04 - 0.1								1	26D		32	39
0.1 - 0.25		1.3A	0.068B		0.08A			1	27D		26	45
0.25 - 0.38								1				
0.38 - 0.56		0.58A						1	13D	9	17	61
0.84 - 1.06								5	20D		9	68

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 - 0.04									
0.04 - 0.1									
0.1 - 0.25									
0.25 - 0.38									
0.38 - 0.56									
0.84 - 1.06									

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Laboratory Analyses Completed for this profile

15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance