

Project Name: FGR
Project Code: FGR **Site ID:** TL51 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	J.R. Sleeman	Locality:	39km south of Mt. Isa:
Date Desc.:	01/01/53	Elevation:	457 metres
Map Ref.:		Rainfall:	381
Northing/Long.:	139.55	Runoff:	Slow
Easting/Lat.:	-21	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Metamorphic rock (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2
		Great Soil Group:	Red earth

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

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Mid-dense. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Light red (2.5YR6/6-Dry); ; Sandy clay loam; Massive grade of structure; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Gradual change to -
B1	0.05 - 0.15 m	Weak red (10R4/4-Dry); ; Sandy light clay; Massive grade of structure; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Gradual change to -
B21	0.15 - 0.3 m	Weak red (10R4/4-Dry); ; Sandy medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Diffuse change to -
B22	0.3 - 0.48 m	Dark red (10R3/6-Dry); ; Sandy medium clay; Weak grade of structure; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

MT ISA

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	6.8A	0.01A	4.5K	1.5	0.69	0.04	2.8B			
0.05 - 0.15	7.1A	0.007A								
0.15 - 0.3	7.1A	0.007A								
0.3 - 0.48	7.3A	0.009A	9.6K	4	0.84	0.09	3.8B			

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 - 0.05		0.63D	16B		0.046A				29D	42	10	16
0.05 - 0.15		0.52D	7B		0.044A				29D	38	10	21
0.15 - 0.3									25D	32	6	31
0.3 - 0.48		0.46D							20D	24	4	46

[illegible]

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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_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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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