Project Name: FLI
Project Code: FLI **Site ID:** H66 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: K.D. Nicholls
Date Desc.: 23/04/53
Map Ref.: Sheet No. : 8418 1:100000
Northing/Long.: 147.883333333333
Easting/Lat.: -39.8
Locality: 2.8km ENE of Mt Killiecrankie 4.8km SSE of Palana:
Elevation: 122 metres
Rainfall: 710
Runoff: Rapid
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Granite

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Hills
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mesotrophic Mottled-Subnatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dg4.41
Great Soil Group: Soloth

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, 0.26-0.5m, Sparse. *Species includes - None recorded
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, angular, Quartz

Profile Morphology

A1	0 - 0.13 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; AbundantDiffuse change to -
A2	0.13 - 0.3 m	Light brownish grey (10YR6/2-Moist); , 10YR52; Sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Abundant
	0.33 - 0.37 m	Greyish brown (10YR5/2-Moist); , 10YR62; Clayey sand; Massive grade of structure; 20-50%, fine gravelly, 2-6mm, Gravel, coarse fragments; Silcrete, Weakly cemented, Massive;
	0.37 - 0.47 m	Light grey (2.5Y7/2-Moist); , 10YR56; Clayey sand; Massive grade of structure; 20-50%, Gravel, coarse fragments; Silcrete, Weakly cemented, Massive;
B	0.48 - 0.74 m	Light grey (5Y7/1-Moist); , 10YR66; , 5YR54; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common
	0.74 - 0.99 m	Light grey (5Y7/1-Moist); , 2.5YR48; , 10YR66; Heavy clay; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
	1.09 - 1.22 m	Light grey (10YR7/1-Moist); , 2.5YR48; , 10YR66; Heavy clay; 2-10%, fine gravelly, 2-6mm, reoriented, Gravel, coarse fragments;
	1.52 - 1.68 m	Light grey (5Y7/1-Moist); ; Heavy clay; Very weak consistence; 2-10%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

47-48CM DGB CLAY WITH ORGANIC ACCUMULATION ABOVE PRISMS:109-122CM GRIT+SAND IN POCKETS:152-168CM C+DRY VERY HARD KAOLIN LUMPS:QUOIN SERIES:

Site Notes

LOIPUNE

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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 - 0.13	4.4A		2.4H	1.5	0.18	0.27	11H 15.5E		20B	
0.13 - 0.3	4.8A							2.9C		
0.33 - 0.37	4.9A									
0.37 - 0.47	4.9A							2.6C		
0.48 - 0.74	4.8A		0.61H	4.1	0.15	0.78	7.1H 11.2E		16.8B	
0.74 - 0.99	5A									
1.09 - 1.22	4.9A		1.05H	8.5	0.16	3.4	4.5H 6.4E		19.5B	
1.52 - 1.68	4.9A									

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 - 0.13		4.62D		0.001D	0.138A			28	64B	21	5	4
0.13 - 0.3		0.5D		0.001D	0.023A							
0.33 - 0.37		0.48D			0.016A							
0.37 - 0.47		0.24D						34	60B	13	15	14
0.48 - 0.74		0.47D		0.001D	0.025A			21	23B	5	7	67
0.74 - 0.99												
1.09 - 1.22				0.001D				8	22B	7	14	60
1.52 - 1.68												

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 - 0.13										
0.13 - 0.3										
0.33 - 0.37										
0.37 - 0.47										
0.48 - 0.74										
0.74 - 0.99										
1.09 - 1.22										
1.52 - 1.68										

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Laboratory Analyses Completed for this profile

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
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
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette