

Project Name: FLI
Project Code: FLI **Site ID:** H61 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	50m W of main ed. at a point 725m S of Killiecrankie t off.
Date Desc.:	18/04/53	Elevation:	30 metres
Map Ref.:	Sheet No. : 8418 1:100000	Rainfall:	710
Northing/Long.:	147.883333333333	Runoff:	Slow
Easting/Lat.:	-39.8666666666667	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Pediment
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Silpanic Kurosolic Redoxic Hydrosol		Principal Profile Form:	Uc4.33
ASC Confidence:		Great Soil Group:	Humus podzol

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, 0.26-0.5m, Sparse. *Species includes - None recorded
Mid Strata - , , . *Species includes - Unknown species, Unknown species
Tall Strata - Heath shrub, 1.01-3m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Sandy loam (Fibric); Massive grade of structure; Moist; Firm consistence; Abundant
A1	0.1 - 0.22 m	Very dark grey (10YR3/1-Moist); ; Sandy loam (Light); Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Sand, coarse fragments; AbundantDiffuse change to
A2	0.27 - 0.36 m	Greyish brown (10YR5/2-Moist); , 10YR62; Sand; Single grain grade of structure; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; ManyDiffuse change to -
A2	0.36 - 0.41 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many
	0.41 - 0.48 m	White (10YR8/1-Moist); , 10YR72; Clayey sand; Massive grade of structure; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Duripan, Moderately cemented, Massive; CommonDiffuse change to -
B1	0.48 - 0.53 m	Very dark greyish brown (10YR3/2-Moist); , 10YR52; Clayey sand; Massive grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Duripan, Strongly cemented; CommonDiffuse change to -
	0.58 - 0.72 m	Greyish brown (10YR5/2-Moist); , 10YR56; Sandy clay loam; Massive grade of structure; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
	0.72 - 0.84 m	Brownish yellow (10YR6/6-Moist); , 10YR62; Heavy clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few
	1.07 - 1.22 m	Light grey (5Y7/2-Moist); , 10YR66; Heavy clay; Massive grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Gravel, coarse fragments;
	1.83 - 1.98 m	Light grey (5Y7/2-Moist); , 10YR56; Sandy clay loam; Very weak consistence; 20-50%, fine gravelly, 2-6mm, Gravel, coarse fragments;

Morphological Notes

Observation Notes

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72-84CM THE YELLOW MOTTLE IS CLAY (SANDY) AND THE GREY MOTTLE IS SCL:KILLIECRANKIE SERIES:

Site Notes

KILLIECRANKIE

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[illegible]

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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 (Ca ²⁺ ,Mg ²⁺ ,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_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette