

Project Name: FLI
Project Code: FLI **Site ID:** H76 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	C.G. Stephens	Locality:	9.7km NNW of Lughrata + 8.1km ENE from Leeka
Date Desc.:	28/01/54	Elevation:	46 metres
Map Ref.:	Sheet No. : 8418 1:100000	Rainfall:	710
Northing/Long.:	147.883333333333	Runoff:	Moderately rapid
Easting/Lat.:	-39.883333333333	Drainage:	Poorly drained

Geology

ExposureType:	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:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Parapanic Humic Aquic Podosol		Principal Profile Form:	Uc4.33
ASC Confidence:		Great Soil Group:	Humus podzol

Analytical data are incomplete but reasonable confidence.

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, 0.26-0.5m, Very sparse. *Species includes - None recorded
Tall Strata - Heath shrub, 1.01-3m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.18 m	Dark grey (10YR4/1-Moist); ; Loamy sand (Fibric); Single grain grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; AbundantDiffuse change to -
A21	0.23 - 0.46 m	Greyish brown (10YR5/2-Moist); ; Loamy sand; Single grain grade of structure; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Diffuse change to -
A22	0.46 - 0.63 m	Greyish brown (10YR5/2-Moist); ; Loamy sand; Single grain grade of structure; Very weak consistence; 50-90%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Sharp change to -
B1	0.65 - 0.74 m	Black (10YR2/1-Moist); ; Loamy sand; Massive grade of structure; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Organic pan, Moderately cemented, Massive; Sharp change to -
B2	0.75 - 0.89 m	Light brown (7.5YR6/4-Moist); ; Clayey sand; Single grain grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Gravel, coarse fragments; Diffuse change to -
BC	0.89 - 1.04 m	Light brownish grey (10YR6/2-Moist); ; Clayey sand; Single grain grade of structure; Weak consistence; 10-20%, fine gravelly, 2-6mm, Gravel, coarse fragments; Diffuse change to -
BC	1.12 - 1.29 m	Yellow (10YR7/8-Moist); , 10YR71; Sandy medium clay; Massive grade of structure; Moderately plastic; Normal plasticity; 50-90%, fine gravelly, 2-6mm, Gravel, coarse fragments; Diffuse change to -
C	1.37 - 1.52 m	Light grey (10YR7/1-Moist); ; Clayey sand; Massive grade of structure; 50-90%, fine gravelly, 2-6mm, Gravel, coarse fragments;

Morphological Notes

Observation Notes

STRONG H2S SMELL BELOW 150CM:65-74CM LAYERED ORGANIC HARD PAN:KILLIECRANKIE SERIES:

Site Notes

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
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