

**Project Name:** FLI  
**Project Code:** FLI                      **Site ID:** H100                      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	2.4km south of Memana
<b>Date Desc.:</b>	19/03/54	<b>Elevation:</b>	152 metres
<b>Map Ref.:</b>	Sheet No. : 8517    1:100000	<b>Rainfall:</b>	730
<b>Northing/Long.:</b>	148.066666666667	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	-40.016666666667	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Quartzite

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Mottled Dystrophic Grey Kurosol		<b>Principal Profile Form:</b>	Dy5.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow podzolic soil

All necessary analytical data are available.

**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 - Xanthorrhoea australis, Hakea species  
Tall Strata - Tree, 3.01-6m, Sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:** 10-20%, , angular, Quartzite

**Profile Morphology**

A1	0 - 0.04 m	Dark grey (10YR4/1-Moist); ; Loamy fine sand; Massive grade of structure; Moist; Weak consistence; 0-2%, Quartzite, coarse fragments; AbundantDiffuse change to -
A2	0.08 - 0.15 m	Light grey (10YR7/1-Moist); , 10YR52; Fine sand; Single grain grade of structure; Moderately moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, angular, Quartzite, coarse fragments; Diffuse change to -
A2	0.15 - 0.2 m	White (10YR8/1-Moist); ; Fine sand; Single grain grade of structure; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Quartzite, coarse fragments; Diffuse, Irregular change to -
B	0.25 - 0.43 m	Light grey (10YR7/1-Moist); , 5Y52; , 10YR54; Fine sandy clay loam; Weak grade of structure, 100-200 mm, Angular blocky; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
BC	0.43 - 0.56 m	Pale yellow (2.5Y7/4-Moist); , 10YR68; Fine sandy clay loam (Light); Massive grade of structure; Moderately moist; Very weak consistence; Diffuse change to -
C	0.56 - 0.71 m	Light grey (5Y7/2-Moist); , 7.5YR58; , 5YR58; Fine sandy clay loam (Light); Massive grade of structure; Moderately moist; Very weak consistence;
C	0.71 - 0.86 m	Light grey (5Y7/2-Moist); , 7.5YR58; , 5YR58; Fine sandy clay loam (Light); Massive grade of structure; Moderately moist; Very weak consistence; 2-10%, stratified, Quartz, coarse fragments;

**Morphological Notes**

**Observation Notes**

71-86CM VEIN OF QZ 25MM THICK AT BOTTOM OF HORIZON:43-56CM DARKER MATERIAL IS LUMPS OF W'D QUARTZITE:

**Site Notes**

LENNA

**Laboratory Test Results:**

[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 <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (%)
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
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_St	Smectite - X-Ray Diffraction
XRD_C_Vm	Vermiculite - X-Ray Diffraction