

**Project Name:** FLI  
**Project Code:** FLI      **Site ID:** H39      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	On road 5.7km SW of Wingaroo:
<b>Date Desc.:</b>	27/02/52	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8418    1:100000	<b>Rainfall:</b>	730
<b>Northing/Long.:</b>	148	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-39.8833333333333	<b>Drainage:</b>	Poorly 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>	Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Silpanic Mottled-Subnatric Grey Sodosol	<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 - Rush, 0.51-1m, Mid-dense. \*Species includes - Xanthorrhoea australis  
Tall Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.13 m	Very dark grey (10YR3/1-Dry); ; Sandy loam (Sapric); Massive grade of structure; Moist; Weak consistence; Non-plastic; ManyDiffuse change to -
A1	0.13 - 0.22 m	Dark grey (10YR4/1-Dry); ; Sandy loam (Sapric); Massive grade of structure; Moist; Weak consistence; Non-plastic; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; ManyDiffuse change to -
A1A2	0.22 - 0.3 m	Grey (10YR5/1-Dry); ; Sand; Massive grade of structure; Moist; Weak consistence; Non-plastic; 2-10%, Gravel, coarse fragments; Diffuse change to -
A2	0.33 - 0.43 m	Light grey (10YR7/1-Dry); ; Sand; Massive grade of structure; Moist; Weak consistence; Non-plastic; 2-10%, Gravel, coarse fragments; Diffuse change to -
B1	0.43 - 0.51 m	Light grey (10YR7/1-Dry); , 10YR52; Massive grade of structure; Dry; Non-plastic; 20-50%, Gravel, coarse fragments; Silcrete, Strongly cemented, Massive; Irregular change to -
B	0.51 - 0.53 m	Light grey (10YR7/1-Dry); , 10YR52; Massive grade of structure; Moderately moist; Non-plastic; 0-2%, Quartz, coarse fragments; Silcrete, Moderately cemented, Massive; Wavy change to -
B	0.53 - 0.76 m	Greyish brown (10YR5/2-Dry); , 5Y52; Heavy clay; Weak grade of structure, 50-100 mm, Columnar; Moderately moist; Firm consistence; Slightly plastic; Normal plasticity; 20-50%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Diffuse change to -
	0.76 - 0.89 m	Brownish yellow (10YR6/6-Dry); , 5Y62; Heavy clay; Moderately plastic; Normal plasticity; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
	1.9 - 2.06 m	Brownish yellow (10YR6/8-Dry); , 5B71; Sandy clay loam; Loose consistence; 0-2%, Quartz, coarse fragments;

**Morphological Notes**

**Observation Notes**

43-53CM GRITTY HARDPANS:53-76CM DGB STAINING ON AGGREGATES:PETIBELA:SERIES:

**Site Notes**

MEMANA

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction