

**Project Name:** FLI  
**Project Code:** FLI      **Site ID:** H58      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	14.2km ENE of Lughrata 10.5km SSE of Wingaroo.
<b>Date Desc.:</b>	18/04/53	<b>Elevation:</b>	8 metres
<b>Map Ref.:</b>	Sheet No. : 8518    1:100000	<b>Rainfall:</b>	730
<b>Northing/Long.:</b>	148.083333333333	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	-39.9333333333333	<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>	Limestone

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Chenier plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Lagoon	<b>Slope Category:</b>	Level
<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
Epihypersodic Petrocalcic Leptic Calcarosol		<b>Principal Profile Form:</b>	Gc1.11
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Rendzina

All necessary analytical data are available.

**Site Disturbance:** No effective disturbance. Natural

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

**Surface Coarse Fragments:** 0-2%, , , Calcarenite

**Profile Morphology**

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Sand (Heavy); Single grain grade of structure; Moist; Very weak consistence; 0-2%, Gravel, coarse fragments; ManySharp, Irregular change to -
A2	0.06 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Moist; Loose consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; ManySharp change to -
B1	0.1 - 0.14 m	Greyish brown (10YR5/2-Moist); ; Clayey sand; Massive grade of structure; Moist; Weak consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; CommonDiffuse change to -
	0.14 - 0.23 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Concretions; CommonDiffuse change to -
	0.23 - 0.29 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, , Concretions; Sharp, Wavy change to -
	0.41 - 0.43 m	; Massive grade of structure; Calcrete, Very strongly cemented, Continuous, Massive;

**Morphological Notes**

**Observation Notes**

41-43CM SOLID LIMESTONE:DENSE MAT <12MM OF DB ROOTS LYING ON LIMESTONE:MEMANA SERIES:

**Site Notes**

MEMANA

**Observation ID: 1**

**Laboratory Test Results:**

[illegible][illegible][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
19A1	Carbonates - rapid titration
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