

**Project Name:** FLI  
**Project Code:** FLI      **Site ID:** H55      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

#### Site Information

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	4.8km NW of Lady Barron:site of hole 68 on Bootjack detailed survey:
<b>Date Desc.:</b>	15/04/53	<b>Elevation:</b>	15 metres
<b>Map Ref.:</b>	Sheet No. : 8517    1:100000	<b>Rainfall:</b>	760
<b>Northing/Long.:</b>	148.2	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	-40.1833333333333	<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>	Sand

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	0 metres
<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>	Eutrophic Dermosolic Redoxic Hydrosol	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Gn3.41
		<b>Great Soil Group:</b>	Humic gley

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

**Vegetation:** Low Strata - Rush, 0.26-0.5m, Mid-dense. \*Species includes - None recorded  
 Tall Strata - Shrub, 1.01-3m, Mid-dense. \*Species includes - None Recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam (Light); Moderately moist; Weak consistence; Common, fine (1-2mm) roots; Diffuse change to -
A	0.05 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Sandy clay loam (Light); Moderately moist; Weak consistence; 0-2%, Quartz, coarse fragments; Common, fine (1-2mm) roots; Diffuse change to -
AB	0.08 - 0.16 m	Dark greyish brown (10YR4/2-Moist); ; Sandy light clay (Light); Weak grade of structure, 5-10 mm, Granular; Moderately moist; Weak consistence; 2-10%, subrounded, Quartz, coarse fragments; Common, medium (2-5mm) roots; Sharp change to -
B	0.16 - 0.28 m	Very dark greyish brown (10YR3/2-Moist); , 10YR58; Heavy clay; Weak grade of structure, 100-200 mm, Prismatic; Moderately moist; Very firm consistence; 0-2%, subrounded, Quartz, coarse fragments; Common, medium (2-5mm) roots;
B	0.28 - 0.43 m	Very dark greyish brown (10YR3/2-Moist); , 10YR58; Heavy clay; Weak grade of structure, 100-200 mm, Prismatic; Moderately moist; Very firm consistence; 2-10%, subrounded, Quartz, coarse fragments; Common, medium (2-5mm) roots; Diffuse change to -
B	0.43 - 0.52 m	Black (5Y2/1-Moist); , 10YR58; Heavy clay; Weak grade of structure, 100-200 mm, Prismatic; Moderately moist; Very firm consistence; 2-10%, rounded, Quartz, coarse fragments; CommonDiffuse change to -
B	0.56 - 0.71 m	Very dark grey (5Y3/1-Moist); , 10YR63; , 10YR66; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Moist; Very firm consistence; 2-10%, rounded, Quartz, coarse fragments; Diffuse change to -
B	0.79 - 0.96 m	Bluish grey (5B5/1-Moist); , 10YR66; , 5YR54; Heavy clay; Moist; Firm consistence; Slightly plastic; Normal plasticity; 2-10%, rounded, Quartz, coarse fragments; Diffuse change to -
	1.78 - 1.93 m	Grey (10YR5/1-Moist); , 10YR81; , 10YR66; Heavy clay; Firm consistence; 10-20%, subrounded, Quartz, coarse fragments;
	2.54 - 2.69 m	Grey (10YR5/1-Moist); , 5G61; Heavy clay; Firm consistence; Slightly plastic; Normal plasticity; 2-10%, subrounded, Quartz, coarse fragments;

#### Morphological Notes

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PATRIARCH SERIES:

**Site Notes**

COOMA

**Observation Notes**

**Observation ID: 1**

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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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette