

**Project Name:** FLI  
**Project Code:** FLI      **Site ID:** H57      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

#### Site Information

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	4km ENE of Ranga near site of hole 64: on dune crest with east west trend:
<b>Date Desc.:</b>	17/04/53	<b>Elevation:</b>	24 metres
<b>Map Ref.:</b>	Sheet No. : 8517    1:100000	<b>Rainfall:</b>	820
<b>Northing/Long.:</b>	148.133333333333	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-40.15	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>Exposure Type:</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>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Dunefield
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Dune	<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
Parapanic Humosequic Aquic Podsol		<b>Principal Profile Form:</b>	Uc2.33
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Humus podzol

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Fern, 0.26-0.5m, Mid-dense. \*Species includes - Pteridium esculentum  
 Tall Strata - Tree, 3.01-6m, Isolated clumps. \*Species includes - None Recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Sand (Fibric); Single grain grade of structure; Moderately moist; Weak consistence; Abundant
A1	0.15 - 0.28 m	Dark greyish brown (10YR4/2-Moist); ; Sand (Fibric); Single grain grade of structure; Moderately moist; Very weak consistence; Sharp, Wavy change to -
A2	0.34 - 0.58 m	Light grey (2.5Y7/1-Moist); , 10YR62; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Few
B1	0.69 - 0.84 m	Very dark brown (10YR2/2-Moist); , 10YR56; Sandy loam (Fibric); Massive grade of structure; Moderately moist; Organic pan, Strongly cemented, Continuous, Massive; Diffuse change to -
B1	0.96 - 1.27 m	Yellowish brown (10YR5/6-Moist); , 10YR22; Massive grade of structure; Moist; Ortstein, Weakly cemented, Massive;
B2	1.73 - 1.88 m	Pale brown (10YR6/3-Moist); ; Coarse sand; Wet; Loose consistence; 0-2%, Gravel, coarse fragments;
	3.35 - 3.45 m	Greenish grey (5G6/1-Moist); , 10YR52; , 10YR54; Heavy clay; Slightly plastic; Normal plasticity; 2-10%, Gravel, coarse fragments;

#### Morphological Notes

#### Observation Notes

#### Site Notes

METTA

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.15	4.4A		1.6H	2.2	0.16	0.35	16.3H 22.3E			
0.15 - 0.28	4.1A									
0.34 - 0.58	4.3A									
0.69 - 0.84	4.7A		0.12H	0.15	0.14	0.02	10.9H 16.2E			
0.96 - 1.27	4.6A									
1.73 - 1.88	5.6A									
3.35 - 3.45	6.6A						1.4H			

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**Laboratory Analyses Completed for this profile**

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C_C_FE	Extractable Fe(Free) % - Method recorded as C
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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
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
6B3	Total organic carbon - high frequency induction furnace, infrared
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