

**Project Name:** FLI  
**Project Code:** FLI      **Site ID:** H102      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	1.25ML along Nelson Lagoon Road from Bowman's Creek:near site 121:
<b>Date Desc.:</b>	23/03/54	<b>Elevation:</b>	5 metres
<b>Map Ref.:</b>	Sheet No. : 8517 1:100000	<b>Rainfall:</b>	752
<b>Northing/Long.:</b>	148.183333333333	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-40.083333333334	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, Calcareous sand

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Stagnant alluvial plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Stream bed	<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
Calcareous Sodosolic Redoxic Hydrosol		<b>Principal Profile Form:</b>	Dd3.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Wiesenboden
All necessary analytical data are available.			

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

**Vegetation:**

Mid Strata - Rush, , . \*Species includes - None recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.1 m	Black (10YR2/1-Moist); ; Loamy sand (Sapric); Massive grade of structure; Moist; Weak consistence; ManyDiffuse change to -
B	0.12 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Fine, (0 - 5) mm crack; Moist; Very firm consistence; FewDiffuse change to -
B	0.3 - 0.41 m	Very dark grey (10YR3/1-Moist); , 10YR42; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Fine, (0 - 5) mm crack; Moist; Slightly plastic; Normal plasticity; Diffuse change to -
B	0.41 - 0.48 m	Grey (10YR5/1-Moist); , 10YR64; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 50-100 mm, Angular blocky; Fine, (0 - 5) mm crack; Moist; 2-10%, reoriented, Shells, coarse fragments; Diffuse change to -
B	0.48 - 0.58 m	Light grey (10YR7/2-Moist); , 10YR76; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Moist; 2-10%, cobbly, 60-200mm, Shells, coarse fragments; Soil matrix is Very highly calcareous; Diffuse change to -
B	0.58 - 0.66 m	Light grey (10YR7/2-Moist); , 10YR76; Clayey sand (Heavy); Massive grade of structure; Fine, (0 - 5) mm crack; Wet; Soil matrix is Very highly calcareous; Diffuse change to -
C	0.76 - 0.89 m	Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Wet; Loose consistence; 50-90%, fine gravelly, 2-6mm, Shells, coarse fragments; Diffuse change to -
C	0.89 - 1.04 m	Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Wet; Loose consistence; 50-90%, fine gravelly, 2-6mm, Shells, coarse fragments; Few
C	1.17 - 1.3 m	Dark grey (10YR4/1-Moist); ; Sand; Single grain grade of structure; Wet; Loose consistence;

**Morphological Notes**

**Observation Notes**

CRACKS DEFINING PRISMS EXTEND TO A DEPTH OF ABOUT 66CM:SANDY TONGUE EXTENDS INTO BOTTOM OF 58-66CM HORIZON:

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**Laboratory Test Results:**

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.1	6.4A						47C		
0.12 - 0.3	7.7A		20.6H	6	0.11	1.8	3E	31.5B	
0.3 - 0.41	7.8A						41.5C		
0.41 - 0.48	8.1A		22H	10.4	0.35	4.4	1.15E	38.3B	
0.48 - 0.58	8.4A								
0.58 - 0.66	8.6A								
0.76 - 0.89	9.1A								
0.89 - 1.04	8.9A								
1.17 - 1.3	8.8A								

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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
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)
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