Project Name: FLI
Project Code: FLI **Site ID:** H101 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock
Locality: About 5CH west of main base line at 8M 35CH:3ML NNE from Memana:
Date Desc.: 22/03/54
Elevation: 11 metres
Map Ref.: Sheet No. : 8518 1:100000
Rainfall: 730
Northing/Long.: 148.116666666667
Runoff: Rapid
Easting/Lat.: -39.9666666666667
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Soil pit, Sand

Land Form

Rel/Slope Class: No Data
Pattern Type: Beach ridge plain
Morph. Type: Simple-slope
Relief: No Data
Elem. Type: Dune
Slope Category: Gently inclined
Slope: 0 %
Aspect: 0 degrees

Surface Soil Condition (dry): Loose, Soft

Erosion:

Soil Classification

Australian Soil Classification:
Parapanic Pipey Semiaquic Podosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc2.33
Great Soil Group: Podzol

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: 20-50%, fine gravelly, 2-6mm, , Quartz

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Sand (Sapric); Single grain grade of structure; Smooth-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; ManyDiffuse change to -
A1	0.05 - 0.18 m	Very dark brown (10YR2/2-Moist); ; Sand (Sapric); Single grain grade of structure; Smooth-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Diffuse change to -
A2	0.28 - 0.48 m	Greyish brown (10YR5/2-Moist); , 10YR61; Sand; Single grain grade of structure; Smooth-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Diffuse change to -
A2	0.48 - 0.63 m	Grey (10YR6/1-Moist); ; Sand; Single grain grade of structure; Smooth-ped fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Diffuse change to -
A2	0.63 - 0.84 m	Light grey (10YR7/1-Moist); ; Coarse sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; 2-10%, rounded, Quartz, coarse fragments; Sharp change to -
A2	0.84 - 0.99 m	Light grey (10YR7/1-Moist); ; Coarse sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; 10-20%, rounded, Quartz, coarse fragments; Diffuse change to -
B1	0.99 - 1.07 m	; Coarse sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; Sharp, Irregular change to -
B1	0.99 - 1.07 m	Dark brown (10YR3/3-Moist); , 10YR56; Medium clay (Fibric); Single grain grade of structure; Moderately moist; Rigid consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Other pans, Moderately cemented, Massive; Sharp change to -
B2	1.12 - 1.14 m	Strong brown (7.5YR5/8-Moist); ; Clayey sand; Single grain grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Sharp change to -
B2	1.19 - 1.35 m	Light brownish grey (2.5Y6/2-Moist); , 10YR56; Clayey sand; Single grain grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;

Morphological Notes

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B1 organic pan

Observation Notes

A2 EXTENDS IN LONG TONGUES DOWN INTO CLAY HORIZONS:

Site Notes

PETIBELA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	5A							18C		
0.05 - 0.18	4.9A		2.1H	1.8	0.13	0.42	13.7H 18.3E		22.8B	
0.28 - 0.48	5.2A							2C		
0.48 - 0.63	5.4A		0.11H	0.05	0.01	0.05	0.8H 0.84E		1.06B	
0.63 - 0.84	5.1A									
0.84 - 0.99	5A									
0.99 - 1.07										
0.99 - 1.07										
1.12 - 1.14	5.3A		0.41H	0.51	0.08	0.18	3.1H 4.6E		5.8B	
1.19 - 1.35	5.5A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		5.1D		0.003D	0.234A							
0.05 - 0.18		3.1D		0.001D	0.124A			4	64B	26	2	2
0.28 - 0.48		0.4D										
0.48 - 0.63		0.2D						4	72D	27	1	1
0.63 - 0.84												
0.84 - 0.99												
0.99 - 1.07		0.2D										
0.99 - 1.07		0.2D										
1.12 - 1.14		0.09D						3	61D	24	0	15
1.19 - 1.35												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.05									
0.05 - 0.18									
0.28 - 0.48									
0.48 - 0.63									
0.63 - 0.84									
0.84 - 0.99									
0.99 - 1.07									
0.99 - 1.07									
1.12 - 1.14									
1.19 - 1.35									

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
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 (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette