Project Name: FLI

Project Code: FLI Site ID: H55 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock Locality: 4.8km NW of Lady Barron:site of hole 68 on Bootjack

detailed survey:

Date Desc.: 15/04/53 Elevation: 15 metres Map Ref.: Sheet No.: 8517 1:100000 Rainfall: 760 Northing/Long.: 148.2 Runoff: No runoff Easting/Lat.: -40.18333333333333 Drainage: Poorly drained

Geology

 ExposureType:
 Soil pit
 Conf. Sub. is Parent. Mat.:
 No Data

 Geol. Ref.:
 No Data
 Substrate Material:
 Sand

Land Form

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Flood plainMorph. Type:FlatRelief:0 metresElem. Type:LagoonSlope Category:LevelSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEutrophic Dermosolic Redoxic HydrosolPrincipal Profile Form:Gn3.41ASC Confidence:Great Soil Group:Humic gley

All necessary analytical data are available.

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 -
Α	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 -
В	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;
В	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 -
В	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 -
В	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 -
В	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 -

Grey (10YR5/1-Moist); , 10YR81; , 10YR66; Heavy clay; Firm consistence; 10-20%, subrounded,

Grey (10YR5/1-Moist); , 5G61; Heavy clay; Firm consistence; Slightly plastic; Normal plasticity;

Morphological Notes

1.78 - 1.93 m

2.54 - 2.69 m

Quartz, coarse fragments;

2-10%, subrounded, Quartz, coarse fragments;

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PATRIARCH SERIES:

Site Notes COOMA

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Project Code: FLI Site ID: H55
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<u>Laboratory Test Results:</u>												
Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	E Na	xchangeable Acidity	CEC	EC	EC	E	SP
m		dS/m		_		Cmol (+)/	/kg				9	6
0 - 0.05	6.2A		6.6H	4.8	1.56	2.2	11.7H 26.2E		41	.4B		
0.05 - 0.08	5.7A		0.011	4.0	0.00	4.07	44 711	25C	0.0			
0.08 - 0.16	5.9A		2.9H	4.6	0.96	1.37	11.7H 23.4E		33	3.3B		
0.16 - 0.28	6.1A		2.6H	5.3	0.82	1.5	5.7H 11.3E		21	.6B		
0.28 - 0.43	5.9A							18.60	;			
0.43 - 0.52	5.9A							18C				
0.56 - 0.71	5.6A		0.011	7.0	0.00	4.00	E 411	15C	40	74 D		
0.79 - 0.96	5.3A		2.8H	7.2	0.29	1.92	5.1H 7.5E		19.	.71B		
1.78 - 1.93	5.8A											
2.54 - 2.69	7.5A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Par GV	ticle Si	ze Aı S	nalysis Silt (lav
m	%	%	mg/kg		%	%	Mg/m3	0.		%	0	, uy
0 - 0.05		4.85D		0.006	0.41	5A		0	26B	15	16	33
0.05 - 0.08		3.66D										
0.08 - 0.16		3.06D			0.23			2	35B	15	11	34
0.16 - 0.28		1.39D		0.002				1	39B	16	9	34
0.28 - 0.43		1.01D			0.10)2A						
0.43 - 0.52		0.82D										
0.56 - 0.71		0.41D		0.001	,			6	32B	19	8	41
0.79 - 0.96 1.78 - 1.93				0.001L	,			О	32D	19	0	41
2.54 - 2.69												
2.54 - 2.09												
Depth	COLE	0.4		vimetric/Volumetric W					K sat	k	unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h		mm/h	
0 - 0.05												
0.05 - 0.08												
0.08 - 0.16 0.16 - 0.28												
0.10 - 0.28												
0.43 - 0.52												
0.56 - 0.71												
0.79 - 0.96												
1.78 - 1.93												
2.54 - 2.69												

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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 (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 Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 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 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