Project Name: FII

Observation ID: 1 **Project Code:** FLI Site ID: H46

CSIRO Division of Soils (TAS) Agency Name:

Site Information

Locality: Desc. By: G.M. Dimmock 1.2km ENE from Thule:4.1km from Whitemark

Elevation: Date Desc.: 10/12/52 91 metres Map Ref.: Sheet No.: 8517 1:100000 Rainfall: 820 Northing/Long.: 148.06666666667 Runoff: Very slow -40.1166666666667 Poorly drained Easting/Lat.: Drainage:

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Plateau Morph. Type: No Data Relief: No Data Elem. Type: Slope Category: No Data No Data No Data 0 % Aspect: Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Acidic-Mottled Self-Mulching Aguic Vertosol **Principal Profile Form:** Uq5.16 **ASC Confidence: Great Soil Group:** Black earth

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments: 2-10%, bouldery, 600mm-2m, , Basalt

Profile Morphology

0 - 0.05 m Very dark grey (10YR3/1-Moist); ; Loam; Moderate grade of structure, Granular; Moderately moist; Weak consistence; 0-2%, Charcoal, coarse fragments; Very few (0 - 2 %), Unidentified, Fine (0 -2 mm), Concretions; Abundant, fine (1-2mm) roots; Diffuse change to -Very dark grey (10YR3/1-Moist); ; Light clay; Weak grade of structure, Granular; Moderately moist; 0.05 - 0.13 m Α Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Unidentified, , Concretions; CommonDiffuse change to -Very dark grey (10YR3/1-Moist); , 10YR56, 2-10%; , 2-10%; Heavy clay; Weak grade of structure, AB 0.13 - 0.2 m 2-5 mm, Granular; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Unidentified, , Concretions; Diffuse change to -

В 0.2 - 0.33 m Dark grey (10YR4/1-Moist); , 10YR56; , 5Y52; Heavy clay; Massive grade of structure; Moist; Very weak consistence; 2-10%, cobbly, 60-200mm, Basalt, coarse fragments; Few (2 - 10 %),

Unidentified, , Concretions; Diffuse change to -

R 0.41 - 0.56 m Dark grey (10YR4/1-Moist); , 10YR56; , 5Y52; Heavy clay; Massive grade of structure; Moist; Very weak consistence; 2-10%, cobbly, 60-200mm, Basalt, coarse fragments; Few (2 - 10 %),

Unidentified, , Concretions; Diffuse change to -

В 0.56 - 0.69 m Dark grey (10YR4/1-Moist); , 10YR56; , 5Y52; Heavy clay; Massive grade of structure; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %),

Unidentified, , Concretions; Diffuse change to -

Yellowish brown (10YR5/4-Moist); , 10YR71; Heavy clay; Massive grade of structure; Slightly 0.74 - 0.86 m

plastic; Normal plasticity; 2-10%, Basalt, coarse fragments; Very few (0 - 2 %), Ferruginous,

Medium (2 -6 mm), Nodules; Diffuse change to -

0.99 - 1.19 m Light brownish grey (2.5Y6/2-Moist); , 10YR66; Heavy clay; Massive grade of structure; Slightly

plastic; Normal plasticity; 0-2%, coarse fragments; Diffuse change to -

1.63 - 1.78 m Yellowish brown (10YR5/4-Moist); , 10YR56; , 10YR71; Heavy clay; Massive grade of structure;

Weak consistence;

Morphological Notes

Observation Notes

13-20CM <2% CHARCOAL ALSO:

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METTA

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Laboratory Test Results:											
Depth	рН	1:5 EC		hangeable Cations		E	xchangeable	CEC	ECE	ic i	ESP
			Ca	Mg	K	Na	Acidity				.,
m		dS/m				Cmol (+)	/kg				%
0 - 0.05	6A		37H	17.3	4.4	2.4	29.3H 51.1E		112.	.2B	
0.05 - 0.13	6.4A		30.6H	14.8	4.7	2.2	15.2H 29E		81.3	3B	
0.13 - 0.2	6.7A		24.3H	16.3	2.8	1.4	8.4H 22.1E		66.9	9B	
0.2 - 0.33	6.8A										
0.41 - 0.56	7A							42.5C			
0.56 - 0.69	7.7A		10.5H	10.3	1.69	3	6.8E		32.3	3B	
0.74 - 0.86	7A										
0.99 - 1.19	5.8A										
1.63 - 1.78	5.1A		7.4H	21.6	1.5	13.7	14.1H 25.6E		69.8	3B	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	K	Bulk Density		icle Size	Silt	
m	%	%	mg/kg	%	%	%	Mg/m3		%	1	
0 - 0.05 0.05 - 0.13 0.13 - 0.2 0.2 - 0.33 0.41 - 0.56 0.56 - 0.69 0.74 - 0.86 0.99 - 1.19	0.04A	11.3D 5.05D 3.32D 2D 1.3D 1.2D		0.068D	0.4 0.3	07A 17A 39A 19A		3 10 4	13B 15B	7 17 12 14 10 10	48 53 58 47
1.63 - 1.78								0	1B	13 34	49
Depth	COLE	0.4	Gravimetric/Volumetric Water Contents					5	K sat K unsa		t
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	mm/h	
0 - 0.05 0.05 - 0.13											

0.05 - 0.13 0.13 - 0.2 0.2 - 0.33 0.41 - 0.56 0.56 - 0.69 0.74 - 0.86 0.99 - 1.19 1.63 - 1.78

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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 5E1_K

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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)

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 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