

Project Name: FLI
Project Code: FLI **Site ID:** H46 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	G.M. Dimmock	Locality:	1.2km ENE from Thule:4.1km from Whitemark
Date Desc.:	10/12/52	Elevation:	91 metres
Map Ref.:	Sheet No. : 8517 1:100000	Rainfall:	820
Northing/Long.:	148.066666666667	Runoff:	Very slow
Easting/Lat.:	-40.116666666667	Drainage:	Poorly drained

Geology

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

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic-Mottled Self-Mulching Aquic Vertosol	Principal Profile Form:	Ug5.16
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

A	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 -
A	0.05 - 0.13 m	Very dark grey (10YR3/1-Moist); ; Light clay; Weak grade of structure, Granular; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Unidentified, , Concretions; CommonDiffuse change to -
AB	0.13 - 0.2 m	Very dark grey (10YR3/1-Moist); , 10YR56, 2-10% ; , 2-10% ; Heavy clay; Weak grade of structure, 2-5 mm, Granular; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Unidentified, , Concretions; Diffuse change to -
B	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 -
B	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 -
B	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 -
	0.74 - 0.86 m	Yellowish brown (10YR5/4-Moist); , 10YR71; Heavy clay; Massive grade of structure; Slightly 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

Site Notes

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[illegible]

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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 (Ca ²⁺ ,Mg ²⁺ ,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)
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