

Project Name: HEL
Project Code: HEL **Site ID:** H132 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	4.5KM west of Takone:
Date Desc.:	17/01/56	Elevation:	579 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1900
Northing/Long.:	145.5625	Runoff:	Rapid
Easting/Lat.:	-41.1666666666667	Drainage:	Well 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): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Humose-Acidic Dystrophic Red Ferrosol	Principal Profile Form:	Gn4.11
ASC Confidence:	Great Soil Group:	Krasnozem

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Fern, 0.51-1m, Mid-dense. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.03 m	Organic Layer; Very dark greyish brown (10YR3/2-Moist); ; Loam (Fibric); Diffuse change to -
A	0.03 - 0.1 m	Dark brown (7.5YR3/4-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, Basalt, coarse fragments; Many, fine (1-2mm) roots; Diffuse change to -
B	0.1 - 0.2 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, Basalt, coarse fragments; AbundantDiffuse change to -
B	0.2 - 0.36 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, Basalt, coarse fragments; Diffuse change to -
BC	0.43 - 0.53 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 2-10%, Basalt, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
C	0.56 - 0.64 m	Dark yellowish brown (10YR4/4-Moist); ; Medium clay; Weak grade of structure, Granular; Moist; Weak consistence; Slightly plastic; Normal plasticity; 2-10%, Basalt, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
C	0.71 - 0.86 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, Granular; Moist; Weak consistence; Slightly plastic; Normal plasticity; 2-10%, Basalt, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
C	0.96 - 1.19 m	Dark yellowish brown (10YR3/4-Moist); ; Medium clay; Weak grade of structure, Granular; Moist; Weak consistence; Slightly plastic; Normal plasticity; , Manganiferous, , Concretions; Diffuse change to -
C	1.32 - 1.52 m	Dark yellowish brown (10YR3/4-Moist); ; Medium clay; Weak grade of structure, Granular; Weak consistence; , Manganiferous, , Concretions; Diffuse change to -

Morphological Notes

Observation Notes

96-152CM WHITE GRANULES OF HALLOYSITE:

Site Notes

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BURNIE

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.03	4.9A								
0.03 - 0.1	5A		2.4H	2.4	0.4	0.29	32.8H 62.5E	68B	
0.1 - 0.2	4.9A		1.1H	1.5	0.19	0.15	28.8H 51.8E	54.7B	
0.2 - 0.36	4.6A								
0.43 - 0.53	4.7A		0.1H	0.28	0.2	0.17	21.6H 43.8E	44.6B	
0.56 - 0.64	4.4A								
0.71 - 0.86	4.2A								
0.96 - 1.19	4.5A								
1.32 - 1.52	4.5A								

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Laboratory Analyses Completed for this profile

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)
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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette