

Project Name: HEL
Project Code: HEL **Site ID:** H134 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	Approx 1.6KM south east of Oonah Post Office:
Date Desc.:	08/02/56	Elevation:	549 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1550
Northing/Long.:	145.638888888889	Runoff:	Slow
Easting/Lat.:	-41.241666666667	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plateau
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Humose Mesotrophic Brown Ferrosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Gn4.11
		Great Soil Group:	Krasnozern

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 - 0.05 m	Organic Layer; Very dark greyish brown (10YR3/2-Moist); ; Loam (Fibric); Dry; 2-10%, Charcoal, coarse fragments; Diffuse change to -
A	0.05 - 0.15 m	Dark brown (7.5YR3/4-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Dry; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
AB	0.15 - 0.25 m	Dark brown (7.5YR3/4-Moist); ; Light clay; Strong grade of structure, <2 mm, Subangular blocky; Dry; Weak consistence; 20-50%, Basalt, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.25 - 0.38 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, <2 mm, Subangular blocky; Moderately moist; Weak consistence; 20-50%, Basalt, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.38 - 0.53 m	Brown (7.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 50-90%, Basalt, coarse fragments; Diffuse change to -
BC	0.53 - 0.64 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Weak consistence; 50-90%, Basalt, coarse fragments; Diffuse change to -
BC	0.66 - 0.79 m	Yellowish red (5YR4/6-Moist); , 10YR54; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; 50-90%, Basalt, coarse fragments; Diffuse change to -
C	0.94 - 1.07 m	Yellowish brown (10YR5/4-Moist); ; 50-90%, Basalt, coarse fragments;
	1.07 - 1.17 m	;

Morphological Notes

On parent material:

Observation Notes

50% OF PROFILE IS BASALT STONES <610MM SIZE:94-107CM DECOMPOSED BA WITH POCKETS OF HALLOYSITE:

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BURNIE

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Laboratory Analyses Completed for this profile

12_HCL_FE	Total element - Fe(%) - Total acid(HCl) extractable Fe
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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