

Project Name: HEL
Project Code: HEL **Site ID:** H142 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	4KM south west of Burnie:
Date Desc.:	23/03/56	Elevation:	137 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	990
Northing/Long.:	145.8625	Runoff:	Rapid
Easting/Lat.:	-41.0611111111111	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 2.5 m deep,Basalt

Land Form

Rel/Slope Class:	Undulating hills 90-300m 3-	Pattern Type:	Plateau
Morph. Type:	Ridge	Relief:	91 metres
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Weak consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -
0.08 - 0.17 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Weak consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Clear change to -
0.18 - 0.25 m	Dark red (2.5YR2/5-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
0.25 - 0.33 m	Dark red (2.5YR2/5-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
0.33 - 0.48 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to -
0.48 - 0.64 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to -
0.64 - 0.79 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Massive grade of structure; Weak consistence; 10-20%, Basalt, coarse fragments; Diffuse change to -
0.79 - 0.94 m	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Weak consistence; 10-20%, Basalt, coarse fragments; Diffuse change to -
0.94 - 1.19 m	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Weak consistence; 20-50%, Basalt, coarse fragments; Diffuse change to -
1.63 - 1.73 m	Light reddish brown (2.5YR6/4-Moist); ; Light clay;
2.29 - 2.39 m	Greyish brown (10YR5/2-Moist); , 2.5YR35;
2.54 - 2.64 m	;

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On compact decomposed BA with heavy BL staining:

Observation Notes

33-119CM BL STAINING ON GRAVELS:229-239CM MEALY DECOMPOSED BA WITH POCKETS OF 2.5YR35(M) CLAY:

Site Notes

BURNIE

Morphological Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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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
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette