

Project Name: HEL
Project Code: HEL **Site ID:** H136 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	3.2KM north of Stowport on east side of road to Burnie:
Date Desc.:	22/02/56	Elevation:	91 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	990
Northing/Long.:	145.936111111111	Runoff:	Rapid
Easting/Lat.:	-41.0861111111111	Drainage:	Well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 2 m deep, Basalt

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Plateau
Morph. Type:	No Data	Relief:	46 metres
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
Haplic Eutrophic 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, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; , fine (1-2mm) roots; Diffuse change to -
A	0.08 - 0.15 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Clear change to -
B	0.18 - 0.29 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.29 - 0.38 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.38 - 0.53 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.53 - 0.69 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.69 - 0.84 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
	0.91 - 1.09 m	Red (2.5YR4/6-Moist); ; Medium clay; Massive grade of structure; Weak consistence; Diffuse change to -
	1.24 - 1.45 m	Yellowish red (5YR4/6-Moist); , 2.5YR36; Medium clay; Massive grade of structure; Very firm consistence; , Ferruginous-organic, Coarse (6 - 20 mm), Soft segregations;
	1.93 - 2.03 m	Greyish brown (10YR5/2-Moist); , 10YR56; Very strong consistence;
	2.03 - 2.13 m	;

Morphological Notes

On compact decomposed basalt:

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0-8CM WORMS ACTIVE:193-203CM VERY COMPACT DECOMPOSED BASALT:

Site Notes

BURNIE

Observation 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
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_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