

Project Name: DER
Project Code: DER **Site ID:** H125 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	Mt Nelson approx 1.6km west of Signal Station:40m north of Bitumen Roadfrom Hobart to Signal Station:
Date Desc.:	17/11/55	Elevation:	305 metres
Map Ref.:		Rainfall:	650
Northing/Long.:	147.334722222222	Runoff:	Moderately rapid
Easting/Lat.:	-42.9277777777778	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Steep hills 90-300m 32-56%	Pattern Type:	Hills
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Sodic Eutrophic Grey Chromosol		Principal Profile Form:	Dy3.62
ASC Confidence:		Great Soil Group:	Soloth
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Mid Strata - Tree, , . *Species includes - Acacia species
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, bouldery, 600mm-2m, , Dolerite

Profile Morphology

0 - 0.06 m	Greyish brown (10YR5/2-Moist); ; Sandy loam (Light); Single grain grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments; CommonClear change to -
0.06 - 0.1 m	Light brownish grey (10YR6/2-Moist); ; Loamy sand; Single grain grade of structure; Weak consistence; 0-2%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
0.1 - 0.13 m	Light brownish grey (10YR6/2-Moist); ; Loamy sand; Single grain grade of structure; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments; Common (10 - 20 %), Ferruginous, , Concretions; Sharp, Wavy change to -
0.17 - 0.25 m	Greyish brown (10YR5/2-Moist); , 10YR56; , 10YR81; Heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Slightly plastic; Normal plasticity; 2-10%, Gravel, coarse fragments;
0.25 - 0.41 m	Greyish brown (10YR5/2-Moist); , 10YR56; , 10YR81; Heavy clay; Weak grade of structure, 20-50 mm, Prismatic; Slightly plastic; Normal plasticity; 2-10%, Gravel, coarse fragments;
0.41 - 0.53 m	Reddish yellow (5YR6/8-Moist); , 10YR74; , 10YR52; Heavy clay; Massive grade of structure; Slightly plastic; Normal plasticity; 10-20%, Gravel, coarse fragments; Sharp, Irregular change to
0.61 - 0.76 m	Light yellowish brown (10YR6/4-Moist); , 10YR72; Heavy clay; Massive grade of structure; 20-50%, Gravel, coarse fragments;
0.94 - 1.07 m	Light yellowish brown (10YR6/4-Moist); , 10YR72; Heavy clay; Massive grade of structure; 50-90%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

0-6CM WORMS:25-76CM ODD LYB SAND POCKETS AND W INCLUSIONS PROMINENT:61-107CM W'D DOLERITE INCREASING:

Site Notes

HOBART

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[illegible]

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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)
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 (%)
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