

Project Name: HEL
Project Code: HEL **Site ID:** H137 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	.8KM north of upper Natone:
Date Desc.:	22/02/56	Elevation:	335 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1500
Northing/Long.:	145.905555555556	Runoff:	Rapid
Easting/Lat.:	-41.222222222222	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.8 m deep,Basalt

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Plateau
Morph. Type:	Simple-slope	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

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
All necessary analytical data are available.		

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus obliqua

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
A	0.08 - 0.15 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Clear change to -
B	0.15 - 0.28 m	Red (2.5YR4/5-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Very few (0 - 2 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
B	0.28 - 0.41 m	Red (2.5YR4/5-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, Basalt, coarse fragments; Many (20 - 50 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
B	0.41 - 0.53 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 50-90%, fine gravelly, 2-6mm, Basalt, coarse fragments; Very many (50 - 100 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
B	0.53 - 0.74 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 50-90%, fine gravelly, 2-6mm, Basalt, coarse fragments; Very many (50 - 100 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
B	0.81 - 0.97 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Massive grade of structure; Moist; Weak consistence; 2-10%, cobbly, 60-200mm, Basalt, coarse fragments; Diffuse change to -
BC	0.97 - 1.09 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Moist; Weak consistence; 2-10%, cobbly, 60-200mm, Basalt, coarse fragments; Diffuse change to -
C	1.17 - 1.37 m	Yellowish brown (10YR5/6-Moist); , 10YR52; Heavy clay; Massive grade of structure; Moist; Weak consistence; 50-90%, cobbly, 60-200mm, Basalt, coarse fragments;
	1.68 - 1.78 m	Dark greyish brown (10YR4/2-Moist); ; Very strong consistence; 50-90%, Basalt, coarse fragments;

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1.78 - 1.88 m ;

Morphological Notes

On decomposing basalt:

Observation Notes

81-168CM BL STAINING ON WEATHERED BASALT GV:168-178CM COMPACT (BL STAINED) DECOMPOSED BASALT:

Site Notes

UPPER NATONE

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