

**Project Name:** HEL  
**Project Code:** HEL **Site ID:** H123 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	2.4KM west of Somerset on ridge back from Woody Hill:
<b>Date Desc.:</b>	20/05/55	<b>Elevation:</b>	143 metres
<b>Map Ref.:</b>	Sheet No. : 8015 1:100000	<b>Rainfall:</b>	1000
<b>Northing/Long.:</b>	145.795833333333	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.0375	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Basalt

**Land Form**

<b>Rel/Slope Class:</b>	Undulating hills 90-300m 3-	<b>Pattern Type:</b>	Plateau
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	122 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	3.5 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Vertic Eutrophic Grey Dermosol	<b>Principal Profile Form:</b>	Gn3.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Prairie soil
All necessary analytical data are available.		

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

**Vegetation:**

Tall Strata - Tree, , Isolated plants. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam (Light); Moderate grade of structure, <2 mm, Granular; Very weak consistence; Common
0.08 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, <2 mm, Angular blocky; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Diffuse change to -
0.2 - 0.3 m	Dark yellowish brown (10YR4/4-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Diffuse change to -
0.3 - 0.48 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Diffuse change to -
0.48 - 0.66 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure;
0.74 - 0.84 m	Light grey (10YR7/1-Moist); , 5YR6/4;
0.89 - 0.94 m	Light reddish brown (5YR6/4-Moist); , 10YR7/1; Very firm consistence;

**Morphological Notes**

**Observation Notes**

0-8CM WORMS ACTIVE:SMALL SHEAR FACES VISIBLE AT 46CM:74-84CM W'D BASALTWITH POCKETS DG CLAY:89-94CM W'D BA:

**Site Notes**

WELLINGTON

**Observation ID: 1**

**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
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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_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