

**Project Name:** LON  
**Project Code:** LON      **Site ID:** H28      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J.K. Taylor	<b>Locality:</b>	On property Raeburn:4.8km NNE of Perth and 5.7km NW of Evandale:
<b>Date Desc.:</b>	22/01/52	<b>Elevation:</b>	183 metres
<b>Map Ref.:</b>	Sheet No. : 8314    1:100000	<b>Rainfall:</b>	700
<b>Northing/Long.:</b>	147.2	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.5333333333333	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>Exposure Type:</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>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Surface crust, Hardsetting

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Epipedal Black Vertosol	<b>Principal Profile Form:</b>	Gn3.42
<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:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	, 10YR32; Clay loam; Weak grade of structure, Granular; Very strong consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
0.1 - 0.28 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, Granular; Very weak consistence; Diffuse change to -
0.28 - 0.36 m	Very dark brown (10YR2/2-Moist); ; Medium clay; Moderate grade of structure, Granular; Firm consistence; Sharp change to -
0.38 - 0.61 m	Very dark brown (10YR2/2-Moist); ; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Strong grade of structure, 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; Diffuse change to -
0.61 - 0.74 m	Olive grey (5Y5/2-Moist); , 10YR52; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Strong grade of structure, 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, Gravel, coarse fragments; Sharp change to -
0.74 - 0.94 m	Olive grey (5Y5/2-Moist); , 10YR52; , 10YR56; Medium clay; , Angular blocky; 2-10%, Basalt, coarse fragments; Diffuse change to -
0.94 - 1.12 m	Olive grey (5Y5/2-Moist); , 10YR52; Medium clay; 20-50%, Basalt, coarse fragments;

**Morphological Notes**

**Observation Notes**

>112CM ON DECOMPOSING BASALT:EVANDALE SERIES:STRONG VERTICLE CRACKING FROM 38CM.

**Site Notes**

CORNWALL

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction