

**Project Name:** LON  
**Project Code:** LON      **Site ID:** H27      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J.K. Taylor	<b>Locality:</b>	5.7km NE of Perth and 4.8km NW of Evandale;property "West Lynn":
<b>Date Desc.:</b>	22/01/52	<b>Elevation:</b>	152 metres
<b>Map Ref.:</b>	Sheet No. : 8314 1:100000	<b>Rainfall:</b>	700
<b>Northing/Long.:</b>	147.216666666667	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-41.5333333333333	<b>Drainage:</b>	Well 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>	Soil pit, 0.41 m deep,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>	2.5 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Ferric Eutrophic Red Chromosol	<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown 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 - 0.08 m	Brown (7.5YR4/2-Moist); ; Loam (Heavy); Weak grade of structure, 2-5 mm, Granular; Very strong consistence; 10-20%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
0.08 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; 2-5 mm, Granular; Very strong consistence; 20-50%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
0.2 - 0.41 m	Dusky red (2.5YR3/2-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Very firm consistence; 50-90%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -

**Morphological Notes**

**Observation Notes**

ON BASALT STONE AT 41CM:BREADALBANE SERIES.

**Site Notes**

CORNWALL

**Observation ID: 1**

**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Exchangeable Acidity Na Cmol (+)/kg	CEC	ECEC	ESP %
			Ca	Mg	K				
0 - 0.08	5.7A		25.8H	6.5	1.9	0.25	11.9H 22.4E	56.9B	
0.08 - 0.2	5.7A		18.5H	6.4	0.92	0.28	10.1H 20.2E	45.7B	
0.2 - 0.41	6.5A		29H	14.8	0.34	0.47	6.4H 14.3E	58.9B	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		4.9D		0.089D	0.58A			13	5B	24	29	31
0.08 - 0.2		3.1D		0.081D	0.41A			10	7B	24	30	33
0.2 - 0.41		1.4D		0.056D	0.201A			18	1B	10	12	72

[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 <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_Hm	Hematite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_St	Smectite - X-Ray Diffraction