

**Project Name:** BUR  
**Project Code:** BUR **Site ID:** H92 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	On Elliott research station
<b>Date Desc.:</b>	17/03/54	<b>Elevation:</b>	183 metres
<b>Map Ref.:</b>	Sheet No. : 8015 1:100000	<b>Rainfall:</b>	1140
<b>Northing/Long.:</b>	145.766666666667	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-41.083333333333	<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>	Basalt

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	8.8 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Acidic Dystrophic Red Ferrosol	<b>Principal Profile Form:</b>	Gn4.11
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Krasnozern
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	Brown (7.5YR4/4-Moist); ; Clay loam; Moderate grade of structure, Granular; Weak consistence; 2-10%, Charcoal, coarse fragments; ManyDiffuse change to -
0.1 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Weak consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Common, fine (1-2mm) roots; Diffuse change to -
0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Granular; Weak consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Common, fine (1-2mm) roots; Diffuse change to -
0.3 - 0.43 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Strong grade of structure, Granular; Weak consistence; Common, fine (1-2mm) roots; Diffuse change to -
0.43 - 0.56 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Moderate grade of structure, Granular; Weak consistence; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Concretions; Common, fine (1-2mm) roots; Diffuse change to -
0.58 - 0.74 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Moderate grade of structure, Granular; Weak consistence; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
0.74 - 0.86 m	Red (2.5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
0.91 - 1.07 m	Yellowish red (5YR4/6-Moist); , 10YR64; Heavy clay; Massive grade of structure; Weak consistence; Diffuse change to -
1.17 - 1.32 m	Pale red (2.5YR6/2-Moist); , 5YR56; Heavy clay; Massive grade of structure; Weak consistence; 2-10%, Gravel, coarse fragments;
1.73 - 1.83 m	Light red (2.5YR6/6-Moist); , 2.5YR62; Heavy clay; Weak consistence; 2-10%, Gravel, coarse fragments;
2.23 - 2.36 m	Light red (2.5YR6/6-Moist); , N50; Heavy clay; Weak consistence;
3 - 3.12 m	Yellowish red (5YR5/6-Moist); , 2.5YR48; , 5YR81; Heavy clay; Weak consistence;

**Morphological Notes**

**Observation Notes**

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117-312CM MEALY CLAY:223-236CM RETAINING THE STRUCTURE OF BASALT:LAPOINYA SERIES:

**Site Notes**

WELLINGTON

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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2.23 - 2.36  
3 - 3.12

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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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
4_NR	pH of soil - Not recorded
5A2	Chloride - 1:5 soil/water extract, automated colour
6_DC	Organic carbon (%) - Dry combustion
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_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction