

Project Name: BUR
Project Code: BUR **Site ID:** H97 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	Locality:	1.6km SW of Lapoinya:
Date Desc.:	23/03/54	Elevation:	366 metres
Map Ref.:	Sheet No. : 8015 1:100000	Rainfall:	1220
Northing/Long.:	145.55	Runoff:	Rapid
Easting/Lat.:	-41.0166666666667	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	14.5 %	Aspect:	No Data

Surface Soil Condition (dry):

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:	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 - 0.08 m	Yellowish red (5YR3/6-Moist); ; Clay loam; Strong grade of structure, Granular; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -
0.08 - 0.15 m	Brown (7.5YR4/4-Moist); ; Clay loam; Strong grade of structure, Granular; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Sharp change to -
0.15 - 0.28 m	Dark reddish brown (5YR3/4-Moist); ; Heavy clay; Strong grade of structure, Granular; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Diffuse change to -
0.28 - 0.41 m	Yellowish red (5YR3/6-Moist); ; Heavy clay; Strong grade of structure, Granular; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Few (2 - 10 %), Argillaceous, Nodules; Diffuse change to -
0.41 - 0.56 m	Yellowish red (5YR3/6-Moist); ; Heavy clay; Moderate grade of structure, Granular; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
0.56 - 0.71 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Massive grade of structure; Firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
0.76 - 0.91 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -
0.99 - 1.17 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Concretions; Diffuse change to -
1.68 - 1.78 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; 2-10%, Basalt, coarse fragments;
2.54 - 2.74 m	;

Morphological Notes

Purple (5R2/6) mealy decomposed ba with YB and BL staining:

Observation Notes

8-15CM MANY WORMS:168-178CM YELLOW-WHITE MATERIAL ALSO:>274CM DECOMPOSING BA MORE

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Site Notes
WELLINGTON

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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 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