Project Name: BUR
Project Code: BUR **Site ID:** H94 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	**Locality:**	5.7km NW from Wynard:
Date Desc.:	19/03/54	**Elevation:**	85 metres
Map Ref.:	Sheet No. : 8016 1:100000	**Rainfall:**	1010
Northing/Long.:	145.670833333333	**Runoff:**	Moderately rapid
Easting/Lat.:	-40.9625	**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 hills 90-300m 3-	**Pattern Type:**	Hills
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	7 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Humose-Acidic Mesotrophic Red Ferrosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn4.11
Great Soil Group: Krasnozem

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; CommonDiffuse change to -
0.08 - 0.18 m	Reddish brown (5YR4/4-Moist); ; Clay loam (Heavy); Strong grade of structure, <2 mm, Granular; Weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; CommonSharp change to -
0.18 - 0.33 m	Yellowish red (5YR3/6-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Weak consistence; FewDiffuse change to -
0.33 - 0.43 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Granular; Weak consistence; FewDiffuse change to -
0.43 - 0.56 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, 5-10 mm, Granular; Strong consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; FewDiffuse change to -
0.56 - 0.71 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Massive grade of structure; Strong consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; FewDiffuse change to -
0.79 - 0.94 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
0.96 - 1.12 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Massive grade of structure; Very firm consistence; 2-10%, Charcoal, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
1.17 - 1.29 m	Red (2.5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Firm consistence; 10-20%, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), ;
1.55 - 1.65 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; 2-10%, Basalt, coarse fragments; Few (2 - 10 %), Ferruginous, , ;
1.9 - 2.01 m	Red (2.5YR4/8-Moist); ; Heavy clay; Massive grade of structure; Weak consistence;
2.44 - 2.59 m	Yellowish brown (10YR5/6-Moist); , 2.5YR48; Heavy clay; Weak consistence;

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3.3 - 3.43 m Yellowish brown (10YR5/6-Moist); , 5YR54; Heavy clay; Weak consistence;

Morphological Notes

Observation Notes

244-343CM MEALY CLAY WITH >60% OF DECOMPOSED BASALT:BURNIE SERIES

Site Notes

WELLINGTON

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	5.5A							27.5C		
0.08 - 0.18	5.3A		3.8H	1.8	0.41	0.28	20.3H 40E		46.3B	
0.18 - 0.33	5.2A							23.5C		
0.33 - 0.43	5.2A		2.8H	1.1	0.24	0.29	15.8H 30.9E		35.3B	
0.43 - 0.56	5.3A							19C		
0.56 - 0.71	5.3A		2.5H	1.4	0.26	0.37	13.6H 26.8E		31.3B	
0.79 - 0.94	5.4A							17.5C		
0.96 - 1.12	5.3A									
1.17 - 1.29	5.3A		1.1H	1.2	0.45	0.21	11.6H 21.6E		24.6B	
1.55 - 1.65	5.3A									
1.9 - 2.01	5.3A									
2.44 - 2.59	5.3A									
3.3 - 3.43	4.9A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		6.9F 5.5D		0.193D	0.554A							
0.08 - 0.18		4.9F 3.6D		0.197D	0.309A			0	15B	11	25	42
0.18 - 0.33		3.5F 2.5D		0.152D	0.28A							
0.33 - 0.43		2.8F 2D		0.137D	0.218A			0	1D	12	26	57
0.43 - 0.56		2.2F 1.6D			0.166A							
0.56 - 0.71		1.6F 1.6D		0.152D	0.123A			0	2B	9	15	71
0.79 - 0.94		0.96F 0.6D			0.068A							
0.96 - 1.12												
1.17 - 1.29				0.046D				37	2B	9	14	70
1.55 - 1.65												
1.9 - 2.01												
2.44 - 2.59												
3.3 - 3.43												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.08									
0.08 - 0.18									
0.18 - 0.33									
0.33 - 0.43									
0.43 - 0.56									

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0.56 - 0.71
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3.3 - 3.43

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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 (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)
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
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 (%)
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