

Project Name: LON
Project Code: LON **Site ID:** H12 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	4.8km S OF Cressy.
Date Desc.:	04/12/51	Elevation:	146 metres
Map Ref.:	Sheet No. : 8314 1:100000	Rainfall:	690
Northing/Long.:	147.066666666667	Runoff:	Moderately rapid
Easting/Lat.:	-41.733333333333	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Rolling plains <9m 10-32%	Pattern Type:	Dunefield
Morph. Type:	No Data	Relief:	3 metres
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Ferric Orthic Tenosol		Principal Profile Form:	Uc4.31
ASC Confidence:		Great Soil Group:	Siliceous sand
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.16 m	Dark yellowish brown (10YR3/4-Moist); ; Sand; Single grain grade of structure; Weak consistence; Diffuse change to -
A1A2	0.16 - 0.28 m	Brown (7.5YR4/4-Moist); ; Sand; Single grain grade of structure; Weak consistence; Diffuse change to -
A2	0.28 - 0.48 m	Brown (7.5YR5/4-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Diffuse change to -
	0.48 - 0.7 m	Strong brown (7.5YR5/6-Moist); ; Sand; Single grain grade of structure; Firm consistence; Sharp change to -
	0.7 - 0.91 m	Strong brown (7.5YR5/6-Moist); ; Clayey sand; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Ferromanganiferous, , Concretions; Sharp change to -
	0.91 - 1 m	Yellowish brown (10YR5/6-Moist); ; Clayey sand; Massive grade of structure; Very firm consistence; Many (20 - 50 %), Ferromanganiferous, , Concretions; Sharp change to -
	0.94 - 0.96 m	; Very many (50 - 100 %), Ferromanganiferous, , Concretions;
	1 - 1.29 m	Yellowish brown (10YR5/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Diffuse change to -
	1.29 - 1.78 m	Yellowish brown (10YR5/7-Moist); ; Sand; Single grain grade of structure; Loose consistence; Diffuse change to -

Morphological Notes

Observation Notes

94-96CM POCKET OF BLACK CONCRETIONARY MATERIAL:PANSHANGER SERIES.

Site Notes

WESTMORLAND

Observation ID: 1

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.16	6A		5.1H	1.1	0.42	0.11	2.1H 3.6E		10.3B	
0.16 - 0.28	6.5A									
0.28 - 0.48	6.3A									
0.48 - 0.7	7A									
0.7 - 0.91	7.1A		3.1H	1.4	0.5	0.09	1.1E		6.2B	
0.91 - 1	6.7A									
0.94 - 0.96										
1 - 1.29	6.6A									
1.29 - 1.78	7.6A		2H	0.94	0.07	0.06	0.38E		3.45B	

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 - 0.16		1D		0.019D	0.11A			0	56B	26	7	8
0.16 - 0.28		0.34D			0.044A							
0.28 - 0.48		0.24D			0.025A							
0.48 - 0.7				0.015D								
0.7 - 0.91				0.013D				0	48B	31	8	10
0.91 - 1												
0.94 - 0.96												
1 - 1.29												
1.29 - 1.78				0.006D				0	38B	46	4	10

[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 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