Project Name: LON

Project Code: LON Site ID: H90 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:J. LovedayLocality:9.7km SW of Longford and 8.9km NW of Cressy:Date Desc.:25/02/54Elevation:160 metres

 Date Desc.:
 25/02/54
 Elevation:
 160 metres

 Map Ref.:
 Sheet No.: 8314
 1:100000
 Rainfall:
 620

 Northing/Long.:
 147.0166666666667
 Runoff:
 Slow

Easting/Lat.: -41.55 Drainage: Poorly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMottled Epipedal Aquic VertosolPrincipal Profile Form:Ug5.16ASC Confidence:Great Soil Group:Humic gley

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Α	0 - 0.08 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; 5-10 mm, Granular; Moderately moist; Firm consistence; Very few (0 - 2 %), Ferruginous, , Concretions; Diffuse change to -
	0.08 - 0.18 m	Very dark grey (2.5Y3/1-Moist); ; Heavy clay; 5-10 mm, Granular; Firm consistence; Very few (0 - 2 %), Ferruginous, , Concretions; CommonDiffuse change to -
	0.18 - 0.34 m	Black (5Y2/1-Moist); ; Heavy clay; Moderate grade of structure, Granular; Weak consistence; Very few (0 - 2 %), Ferruginous, , Concretions; CommonSharp, Irregular change to -
	0.36 - 0.52 m	Very dark grey (5Y3/1-Moist); , 7.5YR56; Heavy clay; , Granular; Very firm consistence; Common (10 - 20 %), Ferruginous, , Concretions; Diffuse change to -
	0.55 - 0.63 m	Very dark grey (2.5Y3/0-Moist); , 7.5YR56; Heavy clay; , Angular blocky; , Granular; Very firm consistence; Few (2 - 10 %), Ferruginous, , Concretions; Diffuse change to -
	0.63 - 0.75 m	Very dark grey (2.5Y3/0-Moist); , 7.5YR56; Heavy clay; 20-50 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
	0.82 - 0.94 m	Very dark grey (2.5Y3/0-Moist); , 7.5YR56; Heavy clay; Massive grade of structure; Very firm consistence; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Concretions; CommonDiffuse change to -
	0.94 - 1.07 m	Strong brown (7.5YR5/6-Moist); , 5Y32; Heavy clay; Massive grade of structure; Very firm consistence; Common (10 - 20 %), Ferruginous, , Concretions; Diffuse change to -
	1.24 - 1.35 m	Olive grey (5Y5/2-Moist); , 10YR66; Heavy clay; Massive grade of structure; Moderately plastic; Normal plasticity; Common (10 - 20 %), Ferruginous, , Concretions;
	1.55 - 1.65 m	Olive grey (5Y5/2-Moist); , 5Y71; , 10YR66; Heavy clay; Moderately plastic; Normal plasticity; Common (10 - 20 %), Ferruginous, , Concretions;
	1.98 - 2.08 m	Light grey (5Y7/1-Moist); , 7.5YR56, 2-10%; , 5Y41, 2-10%; Medium clay; Moderately plastic; Normal plasticity; Common (10 - 20 %), Ferruginous, , Concretions;

Morphological Notes

Observation Notes

124-208CM B1 CONCRETIONS ALSO:KINBURN SERIES:

Site Notes

Project Name: Project Code: Agency Name: LON

LON Site ID: H90 CSIRO Division of Soils (TAS) H90 Observation ID: 1

WESTBURY

Project Name: LON
Project Code: LON Site ID: H9
Agency Name: CSIRO Division of Soils (TAS) H90 Observation ID: 1

Laborator	y Test Results:

<u>Laboratory Test Results:</u>												
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m		J		Cmol					%	, D
0 - 0.08	6A		10H	11	1.06	1.02	14.3H 24.3E			47.7B	;	
0.08 - 0.18	6A							33.50)			
0.18 - 0.34	5.9A		7.2H	12	0.37	1.5	12.7H 24.5E			43.6B	1	
0.36 - 0.52	5.7A							20.50)			
0.55 - 0.63	5.1A		3.5H	10.1	0.15	1.1	6.5H 12E			26.9B	;	
0.63 - 0.75	4.9A											
0.82 - 0.94	4.8A							16.50)			
0.94 - 1.07	4.8A											
1.24 - 1.35	4.6A											
1.55 - 1.65	4.5A											
1.98 - 2.08	4.7A											
Depth	CaCO3	Organic	Avail. P	Total P	Total	Tot K		Pai GV	rticle CS	Size FS	Analysis Silt C	Na
m	%	C %	mg/kg	%	N %	%		GV	CS	го %	SIII C	лау
			3 3				J					
0 - 0.08		4.1D		0.067				5	2B	5	16	66
0.08 - 0.18 0.18 - 0.34		3.4D 2.2D		0.058	0.38 0.29			10	6B	5	17	67
0.16 - 0.54		1.3D		0.0361	0.28			10	OD	5	17	67
0.55 - 0.63		0.8D		0.04D				18	11B	6	17	63
0.63 - 0.75		0.00		0.040	0.10)Z/\		28	110	U	17	03
0.82 - 0.94		0.3D			0.05	57A		0				
0.94 - 1.07		0.02			0.00							
1.24 - 1.35												
1.55 - 1.65												
1.98 - 2.08												
Depth	COLE		Grav	imotric/Vc	olumetric V	Nator Co	untante		K sa		K unsat	
Deptil	COLL	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		Rar	IV 30	11	K ulisat	
m		Jai.	0.03 Bai		g - m3/m		3 Dai 131	Jai	mm/	h	mm/h	
0 - 0.08												
0.08 - 0.18												
0.18 - 0.34												
0.36 - 0.52												
0.55 - 0.63												
0.63 - 0.75												

0.55 - 0.63 0.63 - 0.75 0.82 - 0.94 0.94 - 1.07 1.24 - 1.35 1.55 - 1.65 1.98 - 2.08

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Laboratory Analyses Completed for this profile

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
Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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 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