

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

Site Information

Desc. By:	J. Loveday	Locality:	9.7km SW of Longford and 8.9km NW of Cressy:
Date Desc.:	25/02/54	Elevation:	160 metres
Map Ref.:	Sheet No. : 8314 1:100000	Rainfall:	620
Northing/Long.:	147.016666666667	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%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Epipedal Aquic Vertosol		Principal Profile Form:	Ug5.16
ASC 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

A	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

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WESTBURY

Observation ID: 1

Laboratory Test Results:

[illegible][illegible][illegible]

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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 (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