

**Project Name:** LON  
**Project Code:** LON      **Site ID:** H16      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	K.D. Nicholls	<b>Locality:</b>	8.1km WNW of Longford and 4.8km SSE of Carrick:
<b>Date Desc.:</b>	06/12/51	<b>Elevation:</b>	171 metres
<b>Map Ref.:</b>	Sheet No. : 8314    1:100000	<b>Rainfall:</b>	650
<b>Northing/Long.:</b>	147.016666666667	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.583333333333	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mesotrophic Mottled-Subnatric Red Sodosol		<b>Principal Profile Form:</b>	Dy5.61
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Lateritic podzolic soil
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Danthonia species, Pteridium esculentum

Tall Strata - Tree, 20.01-35m, Mid-dense. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.025 m	Greyish brown (10YR5/2-Moist); ; Sandy loam; Weak consistence; Very few (0 - 2 %), Ferruginous, , Concretions; Diffuse change to -
A1A2	0.025 - 0.18 m	Brown (10YR5/3-Moist); ; Sandy loam; Weak consistence; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Diffuse change to -
A2	0.19 - 0.36 m	Yellowish brown (10YR5/8-Moist); ; Sandy loam; Weak consistence; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Sharp change to -
B1	0.36 - 0.41 m	Strong brown (7.5YR5/8-Moist); ; Heavy clay; Very firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
B	0.41 - 0.74 m	Red (2.5YR5/6-Moist); , 10YR68; , 5Y52; Heavy clay; Massive grade of structure; Firm consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Diffuse change to -
	1.68 - 1.83 m	Reddish brown (2.5YR4/4-Moist); , 10YR56; , 5R26; Heavy clay; Weak consistence; Common (10 - 20 %), Ferruginous, , Concretions;

**Morphological Notes**

**Observation Notes**

WOODSTOCK SERIES.

**Site Notes**

WESTMORLAND

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**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 - 0.025	6.1A		5.8H	3.1	0.73	0.3	7.14H		23.3B	
0.025 - 0.18	5.9A		2.4H	1.5	0.39	0.26	13.4E 5.6H 9.8E		14.4B	
0.19 - 0.36	6A									
0.36 - 0.41	5.7A		1.4H	3.1	0.31	0.54	5.9H 13.6E		18.9B	
0.41 - 0.74	5.4A									
1.68 - 1.83	5A		0.31K	1.1	0.08	0.39	10.2H 13.1E		15B	

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
								GV	CS		Silt	Clay
0 - 0.025		4.3F 3.4D		0.015D	0.28A			3	16B	52	12	11
0.025 - 0.18		2.2F 1.7D		0.01D	0.15A			52	18B	55	13	11
0.19 - 0.36		0.99F 0.7D			0.082A							
0.36 - 0.41		1.2F 0.9D		0.015D	0.081A			40	13D	26	11	49
0.41 - 0.74												
1.68 - 1.83				0.006D				15	6B	24	11	58

[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction