

Project Name: FRA
Project Code: FRA **Site ID:** P260 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By:	L.W. Pym	Locality:	L.D. Sheet 444/80 - Lot 611:31 chains south from a point - 112 chains east along north boundary from N.W. corner:
Date Desc.:	24/11/55	Elevation:	314 metres
Map Ref.:	Sheet No. : 2329 1:100000	Rainfall:	0
Northing/Long.:	117.164444444445	Runoff:	Very rapid
Easting/Lat.:	-34.288055555556	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Peneplain
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Red Chromosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Krasnozern

Analytical data are incomplete but reasonable confidence.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Mid Strata - Tree, , . *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.025 m	Dark brown (7.5YR3/4-Moist); ; Loam (Fibric); Weak grade of structure; FragmentDry; Very weak consistence; 50-90%, Substrate material, coarse fragments; Field pH 6.5 (pH meter); Abrupt, Smooth change to -
A2B1	0.025 - 0.18 m	Brown (7.5YR4/4-Moist); ; Clay loam; Weak grade of structure; FragmentDry; Very firm consistence; 20-50%, Substrate material, coarse fragments; Field pH 6.5 (pH meter); Clear, Smooth change to -
C	0.18 - 0.61 m	Reddish brown (2.5YR4/4-Moist); , 5YR46; Medium clay; , Subangular blocky; Dry; Strong consistence; Moderately plastic; Normal plasticity; Field pH 7 (pH meter);
C	0.61 - 0.91 m	Reddish brown (2.5YR4/4-Moist); , 5YR81; Medium clay; , Subangular blocky; Dry; Strong consistence; Moderately plastic; Normal plasticity; Field pH 7 (pH meter);

Morphological Notes

Observation Notes

0-18CM AL GV IS FERRUGINISED:

Site Notes

HAY

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.025	6.3A	0.071A	11.2K	4.8	0.56	0.27	20.8E		37.6B	
0.025 - 0.18	6.4A	0.042A	7.2K	4.1	0.44	0.21	14.9E		26.9B	
0.18 - 0.61	5.9A	0.11A								
0.61 - 0.91	4.5A	0.521A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.025		7.31D		0.011D	0.253B				16D	29	18	24
0.025 - 0.18				0.007D					16D	31	18	26
0.18 - 0.61									9D	11	9	68
0.61 - 0.91												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	15 Bar	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar		mm/h	mm/h
			g/g - m3/m3			
0 - 0.025						
0.025 - 0.18						
0.18 - 0.61						
0.61 - 0.91						

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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
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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
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