Project Name: LDR
Project Code: LDR **Site ID:** A768 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	G. Blackburn	**Locality:**	
Date Desc.:	22/06/61	**Elevation:**	140 metres
Map Ref.:		**Rainfall:**	500
Northing/Long.:	141.215	**Runoff:**	Rapid
Easting/Lat.:	-36.6133333333333	**Drainage:**	No Data

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Plateau
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	Moderately inclined
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Subnatric Red Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Solodized solonetz

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - , , . *Species includes - Melaleuca unicinata
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.06 m	Brown (7.5YR5/2-Moist); ; Loamy sand; Weak consistence; 2-10%, Gravel, coarse fragments; Field pH 6 (pH meter); Diffuse change to -
0.09 - 0.18 m	Yellow (10YR7/6-Moist); ; Sand; 20-50%, Gravel, coarse fragments; Field pH 6 (pH meter); Clear, Irregular change to -
0.15 - 0.28 m	Red (2.5YR4/6-Moist); ; Medium clay; , Prismatic; Strong consistence; 0-2%, Gravel, coarse fragments; Field pH 6.5 (pH meter);
0.28 - 0.35 m	Red (2.5YR5/6-Moist); ; Sandy medium clay; Firm consistence; Diffuse change to -
0.36 - 0.55 m	Red (2.5YR5/6-Moist); , 7.5YR68; Medium clay; Very weak consistence; Field pH 7 (pH meter);
0.55 - 0.68 m	Reddish yellow (7.5YR6/8-Moist); , 2.5Y76; , 2.5YR46; Sandy medium clay; Firm consistence; Field pH 6.5 (pH meter);
0.68 - 0.81 m	Grey (10YR6/1-Moist); , 7.5YR68; , 2.5YR46; Sandy medium clay;
0.81 - 0.9 m	Reddish yellow (7.5YR6/8-Moist); , 2.5YR46; Weak consistence; Field pH 6 (pH meter);

Morphological Notes

Observation Notes

SHARP CHANGE BETWEEN GRAVELLY SAND & BLEACHED COMPACT LS TOP EATING INTO CLAY::

Site Notes

LOWAN

Project Name: LDR
Project Code: LDR **Site ID:** A768 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Cmol (+)/kg							%
0 - 0.06	6H 7.1H	0.008C	2.3K	0.6	0.1	0.12	2.2D			
0.09 - 0.18	6H 7H	0.007C								
0.15 - 0.28	6H 7H	0.038C	5.9K	6.4	0.55	1.9	5.5D			
0.28 - 0.35	7.5H	0.059C								
0.36 - 0.55	7H 7.5H	0.11C	6K	8.4	0.84	3.1	4.2D			
0.55 - 0.68	6H 7.1H	0.15C								
0.68 - 0.81	6.4H	0.21C					4D			
0.81 - 0.9	6H 6.4H	0.15C								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.06		0.72E			0.025B			6	32C	57	5	7
0.09 - 0.18								37	36C	58	3	4
0.15 - 0.28		0.95E			0.049B			10	17C	24	2	58
0.28 - 0.35								4	15C	19	0	66
0.36 - 0.55								3	16C	18	0	66
0.55 - 0.68								17	31C	20	2	45
0.68 - 0.81								5	30C	19	1	48
0.81 - 0.9								14	49C	23	2	26

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.06										
0.09 - 0.18										
0.15 - 0.28										
0.28 - 0.35										
0.36 - 0.55										
0.55 - 0.68										
0.68 - 0.81										
0.81 - 0.9										

Project Name: LDR
Project Code: LDR **Site ID:** A768 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - 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
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction