

Project Name: N.W. Victoria
Project Code: NWV **Site ID:** A966 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	G. Blackburn	Locality:	
Date Desc.:	06/10/65	Elevation:	88 metres
Map Ref.:		Rainfall:	330
Northing/Long.:	142.23333333	Runoff:	Rapid
Easting/Lat.:	-35.35	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	18 metres
Elem. Type:	Summit surface	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Class Undetermined Regolithic Hypercalcic Calcarosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Solonized brown soil

No analytical data are available but confidence is fair.

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

Vegetation:

Tall Strata - Tree mallee, , . *Species includes - Eucalyptus species, Calotropis procera

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	; Sandy loam; , Granular; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations;
0.08 - 0.23 m	; Sandy loam; , Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.23 - 0.33 m	; Sandy loam (Heavy); Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;
0.33 - 0.53 m	; Sandy clay loam; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
0.53 - 0.65 m	; Medium clay; , Angular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;
0.65 - 0.9 m	; Sandy medium clay; , Angular blocky; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;
0.9 - 1.25 m	; Sandy medium clay; Many (20 - 50 %), Calcareous, , Soft segregations;
1.25 - 1.5 m	; Sandy medium clay; , Columnar; Very firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9 (pH meter);
1.5 - 1.8 m	; Sandy medium clay; , Columnar; Very firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Common, coarse (>5mm) roots;
1.8 - 2.05 m	; Sandy medium clay; , Prismatic; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9 (pH meter); Common
2.05 - 2.29 m	; Sandy medium clay; , Prismatic; Very firm consistence; Field pH 9 (pH meter); Common, fine (1-2mm) roots;
2.29 - 2.49 m	; Sandy medium clay; , Prismatic; Very firm consistence; Field pH 9 (pH meter); Common
2.49 - 2.79 m	; Sandy medium clay; , Prismatic; Very firm consistence; Common
2.79 - 3 m	; Sandy medium clay; , Prismatic; Very firm consistence; Common
3 - 3.25 m	; Sandy medium clay; , Prismatic; Very firm consistence; Field pH 6 (pH meter); Common

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6.7 - 7 m ; Sandy medium clay; , Prismatic;

Morphological Notes

Observation Notes

SEEMS TO BE ONE PROFILE SUPERIMPOSED ON ANOTHER: 53-65CM CLAY SKINS + LIME IN POCKETS:

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.08	8.7H	0.033C							
0.08 - 0.23	8.8H	0.034C						40J	
0.23 - 0.33	9.1H	0.043C							
0.33 - 0.53	9.5H	0.066C							
0.53 - 0.65	9.8H	0.17C						31J	
0.65 - 0.9	9.9H	0.52C							
0.9 - 1.25	10H	0.61C							
1.25 - 1.5	9.9H	0.6C							
1.5 - 1.8	9.8H	0.53C						33J	
1.8 - 2.05	9.3H	0.3C							
2.05 - 2.29	8.9H	0.27C						34J	
2.29 - 2.49	8.8H	0.27C							
2.49 - 2.79	7.9H	0.22C							
2.79 - 3	6.8H	0.31C							
3 - 3.25	5.8H	0.3C						34J	
6.7 - 7	6.2H	0.44C						46J	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08	2.5C											
0.08 - 0.23	9.9C								33C	33	3	22
0.23 - 0.33	25C											
0.33 - 0.53	34C											
0.53 - 0.65	37C								22C	18	1	23
0.65 - 0.9	22C											
0.9 - 1.25	20C											
1.25 - 1.5	3.6C											
1.5 - 1.8	1.9C								35C	32	1	30
1.8 - 2.05	0.04C											
2.05 - 2.29	<0.01C								36C	38	1	24
2.29 - 2.49	<0.01C											
2.49 - 2.79	<0.01C											
2.79 - 3												
3 - 3.25									21C	56	1	24
6.7 - 7									26C	33	4	37

[illegible]

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1.8 - 2.05
2.05 - 2.29
2.29 - 2.49
2.49 - 2.79
2.79 - 3
3 - 3.25
6.7 - 7

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Laboratory Analyses Completed for this profile

15_NR_CEC	CEC - meq per 100g of soil - Not recorded
19B_NR	Calcium Carbonate (CaCO ₃) - 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 recorded
MIN_NR_K2O	Kaolin minerals
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_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_St	Smectite - X-Ray Diffraction