Project Name: **Shire of Kowree, Vic**
Project Code: **SK**   **Site ID:**   **A6C**   **Observation ID: 1**
Agency Name: **CSIRO Division of Soils (VIC)**

Site Information

Desc. By:	G. Blackburn	**Locality:**	THIRD IN A SERIES OF 3 PROFILES - PUFF(6A) + SHELF(6B) + DEPRESSION
Date Desc.:	22/11/53	**Elevation:**	150 metres
Map Ref.:		**Rainfall:**	500
Northing/Long.:	140.983611111111	**Runoff:**	No runoff
Easting/Lat.:	-36.7369444444445	**Drainage:**	Poorly 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:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Plain
Morph. Type:	Flat	**Relief:**	2 metres
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):   N/A

Erosion:

Soil Classification

Australian Soil Classification:		**Mapping Unit:**	N/A
Episodic-Endocalcareous Crusty Aquic Vertosol		**Principal Profile Form:**	Ug5
ASC Confidence:		**Great Soil Group:**	Solonetz
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Sedge, , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Casuarina leuhmannii

Surface Coarse Fragments:

Profile Morphology

0 - 0.01 m   Grey (10YR5/1-Moist); ; Clay loam, fine sandy; Strong consistence; Diffuse change to -

0.01 - 0.08 m   Very dark greyish brown (10YR3/2-Moist); ; Sandy medium clay; Medium, (5 - 10) mm crack; Strong consistence;

0.08 - 0.15 m   Dark grey (10YR4/1-Moist); , 10YR52; Sandy medium clay; Massive grade of structure; Strong consistence; Many, fine (1-2mm) roots;

0.15 - 0.3 m   Grey (10YR5/1-Moist); , 5Y63; Sandy medium clay; Very weak consistence;

0.3 - 0.6 m   Light yellowish brown (2.5Y6/4-Moist); ; Sandy medium clay; Very weak consistence;

0.6 - 0.9 m   Light olive grey (5Y6/2-Moist); , 10YR63; Sandy medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -

0.9 - 1.2 m   Pale yellow (5Y7/4-Moist); ; Sandy medium clay; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;

Morphological Notes

Observation Notes

DEPRESSION IN GILGAI AREA

Site Notes

LOWAN S & L.U. No 17. Map Site 6

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable	Cations		Na	Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K						
m		dS/m					Cmol (+)/kg				%
0 - 0.01	6.7A	0.025C									
0.01 - 0.08	7A	0.026C	6F	7.3	0.47	2.2					
0.08 - 0.15	7.7A	0.044C									
0.15 - 0.3	8.4A	0.095C									
0.3 - 0.6	8.7A	0.338C									
0.6 - 0.9	9A	0.494C									
0.9 - 1.2	9.1A	0.553C									

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 - 0.01				0.006F	0.074C							
0.01 - 0.08												
0.08 - 0.15												
0.15 - 0.3				0.004F	0.031C							
0.3 - 0.6												
0.6 - 0.9												
0.9 - 1.2												

Depth	COLE		Gravimetric/Volumetric	Water	Contents				K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h
0 - 0.01										
0.01 - 0.08										
0.08 - 0.15										
0.15 - 0.3										
0.3 - 0.6										
0.6 - 0.9										
0.9 - 1.2										

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Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
7_C_B	Total Nitrogen - method description not recorded
9A_NR	Total element - P(%) - Not recorded