

Project Name: Barossa Valley V, S.A.
Project Code: BA5 **Site ID:** A112 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	K.H. Northcote	Locality:	VOLUNTEER PASTURE LARGELY ANNUAL GRASSES
Date Desc.:	06/10/54	Elevation:	No Data
Map Ref.:		Rainfall:	0
Northing/Long.:	139.106388888889	Runoff:	Very rapid
Easting/Lat.:	-34.7186111111111	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:	Steep hills 90-300m 32-56%	Pattern Type:	No Data
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Summit surface	Slope Category:	Gently inclined
Slope:	25 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Disturbance:

Vegetation:

Tall Strata - , , . *Species includes - Eucalyptus leucoxyton

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.04 m	; Loamy sand (Fibric); Clear change to -
A2	0.05 - 0.1 m	; Sandy clay loam; Massive grade of structure; Very firm consistence; Sharp change to -
B1	0.13 - 0.3 m	; Medium clay; 20-50 mm, Angular blocky; Very firm consistence; Diffuse change to -
B2	0.3 - 0.46 m	; Medium clay; Very firm consistence; Sharp change to -

Morphological Notes

Observation Notes

SANDY IRONSTONE SLABS SCATTERED OVER SURFACE

Site Notes

STURT

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
						Cmol (+)/kg				
0 - 0.04	6.2A	0.052C			4.8	0.6				
0.05 - 0.1	6A	0.038C								
0.13 - 0.3	6.5A	0.036C	5.7F	5.8	4.8	1.4	5.5E			
					0.84	0.98				
0.3 - 0.46	6.9A	0.062C	7.1F	9.5	5.2	3	3.8E			
					0.58	2.2				

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 - 0.04				0.029F	0.46A				29C	48	12	11
0.05 - 0.1												
0.13 - 0.3				0.008F	0.085C			1	11C	26	7	56
0.3 - 0.46				0.007F				2	13C	18	7	60

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15D1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_NR	Total element - P(%) - 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_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_Tc	Talc - Tourmaline - X-Ray Diffraction