Project Name: Barossa Valley II, S.A.

Project Code: Site ID: Observation ID: 1 BA1 A41

Agency Name: **CSIRO Division of Soils (SA)**

Site Information

K.H. Northcote Locality:

Desc. By: Date Desc.: Elevation: 18/05/54 No Data Sheet No.: SI54-9 Map Ref.: 1:250000 Rainfall: Northing/Long.: 138.93944444445 Runoff: Slow

Easting/Lat.: -34.526944444445 Drainage: Very poorly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-Pattern Type: Plateau

Simple-slope Morph. Type: Relief: 0 metres

; Medium clay; Moderately plastic;

; Sandy medium clay;

Very gently sloped Elem. Type: Hillslope Slope Category:

Aspect: No Data Slope: 0 %

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: Endocalcareous-Endohypersodic Self-Mulching Grey **Principal Profile Form:** Ug5.16

Vertosol

ASC Confidence: Great Soil Group: Wiesenboden

All necessary analytical data are available.

Site Disturbance:

Vegetation:

Tall Strata - Sod grass, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile	Morphology	
A1	0 - 0.06 m	Black (10YR2/1-Moist); ; Medium clay; , Granular; 5-10 mm, Angular blocky; Loose consistence; Moderately plastic; Field pH 6.5 (pH meter); , fine (1-2mm) roots; Clear, Irregular change to -
A2	0.08 - 0.23 m	Black (10YR2/1-Moist); ; Medium clay; 20-50 mm, Angular blocky; Loose consistence; Moderately plastic; Field pH 6.5 (pH meter); Gradual change to -
B1	0.3 - 0.48 m	(N2/0-Moist); ; Medium clay; 50-100 mm, Angular blocky; Coarse, (10 - 20) mm crack; Very firm consistence; Moderately plastic; Field pH 6.5 (pH meter); Diffuse change to -
B1	0.48 - 0.61 m	Black (10YR2/1-Moist); , 10YR21; Medium clay; 50-100 mm, Angular blocky; Very firm consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Diffuse change to -
	0.61 - 0.89 m	Brown (10YR5/3-Moist); , 7.5YR54; , 10YR21; Medium clay; 50-100 mm, Angular blocky; Very firm consistence; Moderately plastic; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (pH meter);
	1.22 - 1.68 m	; Medium clay; Very weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations;

Morphological Notes

2.24 - 2.34 m

3.33 - 3.53 m

Observation Notes

Site Notes

BAROSSA LIGHT

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Laboratory Test Results:

Depth	рН	1:5 EC		nangeable ⁄Ig	Cations K	Ex Na	changeable Acidity	CEC		ECEC		ESP
m		dS/m	od 1	ng	ĸ	Cmol (+)/						%
0 - 0.06	6.9A	0.026C	18.1F	5.3	1.7	0.44	5.4E					
0.08 - 0.23	7.4A	0.017C										
0.3 - 0.48	8.4A	0.027C	16.7F	9.1	0.8	2.6						
0.48 - 0.61	9.2D	0.095C										
0.61 - 0.89	9.5A	0.15C										
1.22 - 1.68	9.2A	0.54C										
2.24 - 2.34	8.9A	0.67C										
3.33 - 3.53	8.5A	0.58C										
Domth	0-000	0	A !!	Tatal	T-4-1	Tatal	DII-			0:	A l !	_
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	CS	FS	Analysi: Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	03	%	Siit	Clay
0 - 0.06					0.2	7C						
0.08 - 0.23					0.2	. •			7C	55	5 13	25
0.3 - 0.48	0.02A	A			0.0	6C			6C	46	-	37
0.48 - 0.61	1.7A								6C	38	-	41
0.61 - 0.89	9.9A											
1.22 - 1.68	8.4A											
2.24 - 2.34	1A											
3.33 - 3.53	0.05A	4							7C	33	6	53
D. 4	Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat											
Depth	COLE	Sat.	Gravi 0.05 Bar	imetric/Vo 0.1 Bar	lumetric V 0.5 Bar	Vater Conte 1 Bar	ents 5 Bar 15 B	3ar	Ks	at	K unsa	t
m					g - m3/m			-	mm	/h	mm/h	

0 - 0.06 0.08 - 0.23 0.3 - 0.48 0.48 - 0.61 0.61 - 0.89 1.22 - 1.68 2.24 - 2.34 3.33 - 3.53

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Laboratory Analyses Completed for this profile

10B_NR Extractable sulfur(mg/kg) - Not recorded 12_NR_CU Total element - Cu(mg/kg) - Not recorded

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

15G1_H Hydrogen Cation - meq per 100g of soil - 1M KCI Exch. Acidity By titration to pH 8.0

19A1 Carbonates - rapid titration 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

4C1 pH of 1:5 soil/1M potassium chloride extract - direct
 5A2 Chloride - 1:5 soil/water extract, automated colour
 7_C_B Total Nitrogen - method description not recorded

9H_NR Posphate retention % - Not recorded
M1a Sodium absorption ratio (SAR)
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