Project Name: Botanic Gardens Annex, S.A.

Project Code: BGA Site ID: A954 Observation ID: 1

Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Malcolm J. Wright Locality:

 Date Desc.:
 15/06/65
 Elevation:
 580 metres

 Map Ref.:
 Rainfall:
 0

 Northing/Long.:
 138.716666666667
 Runoff:
 Very rapid

 Easting/Lat.:
 -34.9833333333333
 Drainage:
 Rapidly 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:No DataPattern Type:No DataMorph. Type:No DataRelief:No DataElem. Type:No DataSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ABleached Mesotrophic Brown KandosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** 

## **Surface Coarse Fragments:**

**Profile Morphology** 

0 - 0.08 m Dark greyish brown (10YR4/2-Moist); ; Loam; Massive grade of structure; Firm consistence; 2-10%, coarse gravelly, 20-60mm, Shale, coarse fragments; Many, fine (1-2mm) roots: Diffuse

change to -

0.08 - 0.2 m Light yellowish brown (10YR6/4-Moist); , 10YR42; Clay loam; Weak grade of structure,

Granular; Massive grade of structure; Firm consistence; 0-2%, cobbly, 60-200mm, Shale,

coarse fragments; Many, fine (1-2mm) roots; Diffuse change to -

0.2 - 0.38 m Strong brown (7.5YR5/6-Moist); ; Clay loam; Weak grade of structure, Granular; Firm

consistence; 0-2%, cobbly, 60-200mm, Shale, coarse fragments; Few, fine (1-2mm) roots;

Diffuse change to -

0.38 - 0.63 m Strong brown (7.5YR5/6-Moist); ; Medium clay; Massive grade of structure; Firm consistence;

20-50%, Shale, coarse fragments; Diffuse change to -

0.63 - 0.83 m Strong brown (7.5YR5/6-Moist); ; Medium clay; Weak grade of structure, Granular; Firm

consistence; 20-50%, Shale, coarse fragments;

0.83 - 1 m ; 50-90%, Shale, coarse fragments;

1 - 1.1 m ;

### **Morphological Notes**

N.P. on shale

### **Observation Notes**

SLIGHT SURFACE SEAL: 83-100CM MAINLY SLIGHTLY WEATHERED SHALE:

# Site Notes

MT LOFTY

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# **Laboratory Test Results:**

Depth	рН	1:5 EC		nangeable		Na	Exchange			ECEC	E	SP
m		dS/m	a I	Mg K		Na Acidity Cmol (+)/kg		У			Ç	%
0 - 0.08 0.08 - 0.2	5.4H 6H	0.01C 0.009C	1.8K	1	0.35	0.35	8.8	5D				
0.08 - 0.2 0.2 - 0.38 0.38 - 0.63 0.63 - 0.83 0.83 - 1 1 - 1.1	6H 6.1H 6.1H 5.7H	0.009C 0.011C 0.011C 0.011C 0.011C	1.2K	2.2	0.37	0.31	7.9	9D				
Depth	CaCO3	Organic	Avail. P	Total P	Total N	Tota K			article CS	Size A	-	
m	%	C %	mg/kg	%	<b>%</b>	%		nsity GV /m3	CS	г <b>э</b> %	Silt	Clay
0 - 0.08				0.011F	0.06	3B 0.2	22B	13	5C	41	35	16
0.08 - 0.2 0.2 - 0.38 0.38 - 0.63				0.014F 0.018F			35B 51B	18	5C	21	31	43
0.63 - 0.83								13	3C	14	40	43
0.83 - 1 1 - 1.1				0.012F	-	0.3	33B					
Depth	COLE				lumetric V				K s	at	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm	/h	mm/h	
0 - 0.08 0.08 - 0.2												

0.08 - 0.2 0.2 - 0.38 0.38 - 0.63 0.63 - 0.83 0.83 - 1 1 - 1.1

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#### **Laboratory Analyses Completed for this profile**

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15\_NR\_CA 15\_NR\_H

15\_NR\_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15\_NR\_NA

17A\_NR Total element - K(%) - Not recorded

2 LOI Loss on Ignition (%) Air-dry moisture content 2A1

3A\_TSS Electrical conductivity or soluble salts - Total soluble salts %

4\_NR pH of soil - Not recorded

5\_NR 7\_NR Water soluble Chloride - Cl(%) - Not recordede

Total nitrogen (%) - Not recorded
Total element - P(%) - Not recorded 9A\_NR

P10\_GRAV Gravel (%)

Clay (%) - Not recorded Coarse sand (%) - Not recorded P10\_NR\_C P10\_NR\_CS Fine sand (%) - Not recorded P10\_NR\_FS P10\_NR\_Z Silt (%) - Not recorded