Project Name: Elizabeth, S.A.

Project Code: Site ID: A534 Observation ID: 1 EA1

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

Site Information

C.B. Wells Locality:

Desc. By: Date Desc.: Elevation: 21/04/58 No Data Map Ref.: Rainfall:

Northing/Long.: Runoff: Moderately rapid Easting/Lat.: Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: No Data

No Data Morph. Type: Relief: No Data Slope Category: Gently inclined Elem. Type: No Data Slope: 0 % Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Calcic Hypernatric Red Sodosol **Principal Profile Form:** N/A Black earth **ASC Confidence: Great Soil Group:**

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded

Surface Coarse Fragments:

<u>Profile</u>	<u>Morphology</u>
Α1	0 - 0.1 m

A1	0 - 0.1 m	Brown (7.5YR5/4-Moist); ; Fine sandy loam; Massive grade of structure; Strong consistence; Diffuse change to -
A2B	0.1 - 0.18 m	Reddish brown (5YR5/4-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Strong consistence; Sharp change to -
B1	0.18 - 0.38 m	Dark reddish brown (5YR3/2-Moist); ; Medium clay; 10-20 mm, Angular blocky; 5-10 mm, Angular blocky; Very firm consistence; Gradual change to -
B2	0.38 - 0.58 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; 10-20 mm, Angular blocky; , Granular; Firm consistence; Gradual change to -
B1k	0.58 - 0.81 m	Reddish brown (5YR4/4-Moist); ; Medium clay; 10-20 mm, Angular blocky; , Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
B2k	0.86 - 0.96 m	Reddish brown (5YR5/4-Moist); ; Fine sandy loam; Very few (0 - 2 %), Calcareous, , Soft segregations; Clear change to -
	0.96 - 1.09 m	Reddish brown (5YR4/4-Moist); ; Loam; Sharp change to -
	1.09 - 1.27 m	Dark red (2.5YR3/6-Moist); ; Clay loam; 20-50 mm, Angular blocky; , Granular; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Clear change to -
	1.27 - 1.47 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, Granular; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Gradual change to -
	1.47 - 1.75 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
	1.93 - 2.13 m	Reddish brown (5YR4/3-Moist); ; Loam; Strong grade of structure, 20-50 mm, Angular blocky; , Granular; Very weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Clear change to -
3A	2.13 - 2.23 m	Yellowish red (5YR4/6-Moist); ; Clay loam, fine sandy (Heavy); Weak grade of structure, Granular; ; FragmentVery weak consistence; Clear change to -

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2.23 - 2.46 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; 50-100 mm, Prismatic; , Granular; Very weak
	consistence; Few (2 - 10 %), Calcareous, , Nodules; Gradual change to -

2.46 - 2.59 m Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; 50-100 mm, Prismatic; , Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

2.69 - 2.97 m Dark red (2.5YR3/6-Moist); ; Clay loam; 50-100 mm, Prismatic; , Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Clear change to -

2.97 - 3.22 m Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; 20-50 mm, Prismatic; , Granular; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Sharp change to -

3.22 - 3.35 m Red (2.5YR4/6-Moist); ; Medium clay; , Angular blocky; , Granular; Very weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations;

Morphological Notes

Observation Notes

ALL GLAZED PEDS:

Site Notes

ADELAIDE

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<u>Laboratory Test Results:</u> Depth pH 1:5 EC

Laboratory	rest Re	Suits:											
Depth	pН	1:5 EC		changeable	Cations		Exchar	ngeable	CEC		ECEC	E	SP
		10/	Ca	Mg	K	Na		dity					.,
m		dS/m				Cmol (+	+)/Kg						%
0 - 0.1	7.1H	0.02C	5.1K	2	0.69	0.59							
0.1 - 0.18	7.5H	0.02C	4.7K	3.1	0.27	1.7							
0.18 - 0.38	8.6H	0.12C	10.5K	14	0.78	7							
0.38 - 0.58	9.8H	0.29C	8.9K	18	1.08	10.1							
0.58 - 0.81	10H	0.42C											
0.86 - 0.96	9.8H	0.36C											
0.96 - 1.09	9.8H	0.45C											
1.09 - 1.27	10.1H	0.72C	7K	15	1.4	11							
1.27 - 1.47	9.9H	0.67C											
1.47 - 1.75	10H	0.58C											
1.93 - 2.13	10H	0.5C											
2.13 - 2.23 2.23 - 2.46	9.8H 10.1H	0.33C 0.59C	5.2K	14	1.6	10							
2.46 - 2.59	10.111 10.2H	0.53C	J.21\	14	1.0	10							
2.69 - 2.97	10H	0.47C											
2.97 - 3.22	10.1H	0.45C	4.4K	11	1.2	8							
3.22 - 3.35	10H	0.39C											
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	ıl	Bulk	P:	article	Size	Analysis	
Бериі	Cacos	C	P	P	N	K		Duik	GV .	CS	FS	Silt	
m	%	%	mg/kg	%	%	%		/lg/m3			%		•
0 - 0.1				0.022F			38B			6C	56	_	15
0.1 - 0.18	0.040					57B				6C	53		16
0.18 - 0.38	0.01C 0.03C			0.021F		86B	04D			3C 2C	32 29		48
0.38 - 0.58 0.58 - 0.81	11C	,		0.0211	0.0	56B 0.8	31B			8C	29	14	50 35
0.86 - 0.96	5.7C									5C	46		22
0.96 - 1.09	1.7C									3C	42		28
1.09 - 1.27	13C									1C	15	_	61
1.27 - 1.47	23C									1C	19	11	44
1.47 - 1.75	17C									1C	23		39
1.93 - 2.13	0.44C									3C	30	20	44
2.13 - 2.23	0.93C	;								7C	51	18	21
2.23 - 2.46	1.6C 10C									5C 6C	23 22		65
2.46 - 2.59 2.69 - 2.97	22C									4C	22	5	58 44
2.97 - 3.22	12C									5C	29		43
3.22 - 3.35	19C									5C	33		33
											, ,	-	
Depth	COLE		Gra	vimetric/Vo	olumetric \	Water Cor	ntents			Кs	at	K unsat	:
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 B	ar 15	Bar				
m				g/	g - m3/m	13				mm	/h	mm/h	

0 - 0.1 0 - 0.1 0.1 - 0.18 0.18 - 0.38 0.38 - 0.58 0.58 - 0.81 0.86 - 0.96 0.96 - 1.09

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1.09 - 1.27 1.27 - 1.47 1.47 - 1.75 1.93 - 2.13 2.13 - 2.23 2.23 - 2.46 2.46 - 2.59 2.69 - 2.97 2.97 - 3.22 3.22 - 3.35

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Laboratory Analyses Completed for this profile

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded 15_NR_CA 15_NR_K 15_NR_MG Exch. basic cations (Mg++) - meg per 100g of soil - Not recorded 15 NR NA Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

17A_NR Total element - K(%) - Not recorded

19B_NR Calcium Carbonate (CaCO3) - 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_NR_C Clay (%) - Not recorded

P10_NR_CS P10_NR_FS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_Z Silt (%) - Not recorded