

**Project Name:** Elizabeth, S.A.  
**Project Code:** EA1      **Site ID:** A529      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	C.B. Wells	<b>Locality:</b>	
<b>Date Desc.:</b>	12/03/58	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	0
<b>Northing/Long.:</b>		<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>		<b>Drainage:</b>	Poorly drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Open depression (vale)	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Sodic Calcic Red Dermosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red-brown earth
All necessary analytical data are available.			

**Site Disturbance:**

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - None recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.09 m	Dark reddish brown (5YR3/3-Moist); ; Loam (Heavy); Strong grade of structure, Granular; Firm consistence; Diffuse change to -
B1	0.1 - 0.28 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, 10-20 mm, Angular blocky; Weak consistence;
B2	0.28 - 0.39 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam; Strong grade of structure, 20-50 mm, Prismatic; Very weak consistence; Clear change to -
B1k	0.39 - 0.86 m	Yellowish red (5YR4/8-Moist); ; Clay loam (Heavy); Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;
B1k	0.86 - 1.3 m	Yellowish red (5YR4/8-Moist); ; Clay loam; Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Gradual change to -
B2k	1.3 - 1.75 m	Dark red (2.5YR3/6-Moist); ; Clay loam; Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
B2k	1.93 - 2.49 m	Yellowish red (5YR4/8-Moist); ; Clay loam (Heavy); Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;
	2.49 - 3.92 m	Yellowish red (5YR4/8-Moist); ; Clay loam; Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Gradual change
	3.92 - 4.2 m	Dark red (2.5YR3/6-Moist); ; Clay loam; 20-50 mm, Prismatic; , Granular; Very weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations;

**Morphological Notes**

**Observation Notes**

**Site Notes**

ADELAIDE

**Observation ID: 1**

**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 - 0.09	6.7H	0.037C	17K	4.9	2.2	0.52			
0.1 - 0.28	7.4H	0.021C	24K	6.4	1.3	0.93			
0.28 - 0.39	8.1H	0.043C	25K	6.7	1.2	1.3			
0.39 - 0.86	9.4H	0.063C							
0.86 - 1.3	9.8H	0.13C	6.3K	10.5	1.5	5			
1.3 - 1.75	9.9H	0.19C							
1.93 - 2.49	10H	0.22C	2.4K	8.2	1.1	7.9			
2.49 - 2.92	9.9H	0.26C							
2.92 - 3.2	9.8H	0.28C							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.09		1.8E		0.024F	0.14B	0.7B			5C	36	15	41
0.1 - 0.28	0.02C	1.1E			0.099B				2C	27	16	52
0.28 - 0.39	0.06C	0.76E		0.02F	0.066B	1B			2C	26	6	61
0.39 - 0.86	37C	0.27E			0.025B				2C	13	6	39
0.86 - 1.3	30C								3C	17	10	36
1.3 - 1.75	22C								6C	24	8	36
1.93 - 2.49	30C								6C	23	5	31
2.49 - 2.92	19C								8C	21	8	43
2.92 - 3.2	16C								5C	25	8	44

[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq 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 (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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