

**Project Name:** Elizabeth, S.A.  
**Project Code:** EA1      **Site ID:** A531      **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>	11/04/58	<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>	Very 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>	No Data	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Open depression (vale)	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**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:** Complete clearing. Pasture, native or improved, cultivated at some stage

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

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.09 m	Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Strong consistence; Gradual change to -
B1	0.09 - 0.25 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; , Granular; Very firm consistence; Gradual change to -
B2	0.25 - 0.39 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Weak grade of structure, Angular blocky; , Granular; Very firm consistence; Sharp change to -
B1k	0.39 - 0.61 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Gradual
B2k	0.61 - 0.86 m	Yellowish red (5YR4/6-Moist); ; Clay loam; Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;
B2k	0.86 - 1.01 m	Yellowish red (5YR4/6-Moist); , 10YR83; Clay loam; Weak grade of structure, Angular blocky; , Granular; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Gradual change to -
	1.01 - 1.49 m	Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; , Prismatic; , Granular; Very weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Clear change to -
	1.49 - 1.7 m	Dark red (2.5YR3/6-Moist); ; Medium clay; , Prismatic; , Granular; Very weak consistence;
	1.7 - 2.47 m	Dark red (2.5YR3/6-Moist); ; Medium clay; , Prismatic; , Granular; Very weak consistence;
	2.47 - 3.1 m	Red (2.5YR4/6-Moist); ; Medium clay; , Prismatic; , Granular; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Clear change to -
	3.1 - 3.3 m	Yellowish red (5YR5/5-Moist); ; Clay loam; Single grain grade of structure; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations;

**Morphological Notes**

**Observation Notes**

OCCASIONAL BLACK SPECKS: 49-61CM PRESENCE OF CAMYC:

**Site Notes**

ADELAIDE

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.09	8H	0.035C	19K	4.7	1.7	0.73				
0.09 - 0.25	8.2H	0.021C	21K	5.6	1.4	1.7				
0.25 - 0.39	8.7H	0.039C	26K	6.7	1.3	2.9				
0.39 - 0.61	9.4H	0.086C								
0.61 - 0.86	9.7H	0.14C	6.7K	4.9	0.99	3.6				
0.86 - 1.01	9.7H	0.23C								
1.01 - 1.49	9.7H	0.31C								
1.49 - 1.79	9.7H	0.38C	3.2K	9.7	1.8	8.9				
1.7 - 2.47	9.6H	0.45C								
2.47 - 3.1	9.6H	0.43C								
3.1 - 3.3	9.6H	0.46C	3K	8.4	1.6	8.3				

Depth  m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		Silt	Clay
0 - 0.09	0.01C			0.025F	0.12B	0.97B			7C	40	14	38
0.09 - 0.25	0.01C				0.089B				6C	32	12	46
0.25 - 0.39	0.03C			0.021F	0.082B	0.68B			5C	24	8	59
0.39 - 0.61	27C				0.043B				6C	20	8	40
0.61 - 0.86	42C								5C	18	6	28
0.86 - 1.01	42C								3C	17	7	29
1.01 - 1.49	38C								3C	17	9	37
1.49 - 1.79	25C								3C	22	10	40
1.7 - 2.47	16C								2C	24	9	45
2.47 - 3.1	18C								5C	23	10	46
3.1 - 3.3	32C								4C	20	8	34

[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
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