Project Name: **Eyre Peninsula Soil Survey**
Project Code: **EP** **Site ID:** **A1224** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	Malcolm J. Wright	**Locality:**	Talia to Venus Bay road, Talia district.
Date Desc.:	20/10/83	**Elevation:**	No Data
Map Ref.:	1:100000	**Rainfall:**	No Data
Northing/Long.:	134.76666667	**Runoff:**	Rapid
Easting/Lat.:	-33.25	**Drainage:**	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Uc1.33
Great Soil Group: Calcareous sand

Site Disturbance:

Vegetation:

Tall Strata - Tree mallee, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Many, fine (1-2mm) roots;
0.1 - 0.2 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, , Concretions; Many, fine (1-2mm) roots;
0.2 - 0.3 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, , Concretions; Common, fine (1-2mm) roots;
0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Loamy sand; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, , Concretions; Few, fine (1-2mm) roots;
0.4 - 0.5 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Loamy sand; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, , Concretions; Few, fine (1-2mm) roots;
0.5 - 0.6 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); ; Loamy sand; Massive grade of structure; Very weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Many (20 - 50 %), Calcareous, , Concretions;
0.6 - 0.7 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); ; Loamy sand; Massive grade of structure; Single grain grade of structure; Very weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Many (20 - 50 %), Calcareous, , Concretions;
0.7 - 0.9 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); ; Loamy sand; Massive grade of structure; Single grain grade of structure; Very weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Many (20 - 50 %), Calcareous, , Concretions;

Morphological Notes

Many fine roots.
Many fine roots.
Moderately fine roots.

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Some fine roots.
Some fine roots.
Concretions include pupal cases. Softer younger calcrete.
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Observation Notes

Vegetation: Dense low mallee/broonbush woodland. Parent material is Aeolian. Soil Family is Unit 20 (Bald Hills). Field PPF = Uc5.12 (MJW).

Site Notes

Landform: major rise.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	8.7A	1.43A	6K	2.9	0.87	2.1		11J	12D	19.09
0.1 - 0.2	9.3A	1.94A								
0.2 - 0.3	9.7A	2.08A	1.5K	3.1	1.3	4.3		6.6J	10D	65.15
0.3 - 0.4	9.7A	2.12A								
0.4 - 0.5	9.7A	2.24A	0.62K	2.8	1.3	4.6		5.7J	9.3D	80.70
0.5 - 0.6	9.8A	2.05A								
0.6 - 0.7										
0.7 - 0.9										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	59B	2.46A	11E		0.08A				5D	15	2	12
0.1 - 0.2	66B	1.37A							5D	14	2	9
0.2 - 0.3	65B	1.42A							4D	12	2	9
0.3 - 0.4	70B	1.07A							4D	13	2	8
0.4 - 0.5	72B	0.74A							3D	11	2	6
0.5 - 0.6	73B	0.74A							3D	11	2	6
0.6 - 0.7												
0.7 - 0.9												

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.6										
0.6 - 0.7										
0.7 - 0.9										

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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - 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
15J_BASES	Sum of Bases
18B2	Sulfuric acid (10%)- extractable potassium
19B1	Carbonates - manometric
2_LOI	Loss on Ignition (%)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9B2	Bicarbonate-extractable phosphorus - automated colour
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10_PB1_C	Clay (%) - Plummet balance (Acid digestion pretreatment)
P10_PB1_CS	Coarse sand (%) - Plummet balance (Acid digestion pretreatment)
P10_PB1_FS	Fine sand (%) - Plummet balance (Acid digestion pretreatment)
P10_PB1_Z	Silt (%) - Plummet balance (Acid digestion pretreatment)