Project Name: Eyre Peninsula Soil Survey
Project Code: EP **Site ID:** A1229 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Malcolm J. Wright
Date Desc.: 21/10/83
Map Ref.: 1:100000
Northing/Long.: 134.41666667
Easting/Lat.: -32.73333333
Locality: Near Piednippie Hall on Highway, Courela district.
Elevation: No Data
Rainfall: No Data
Runoff: Rapid
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: No Data
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
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: Uc1.13
Great Soil Group: Calcareous sand

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/3-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Abundant, fine (1-2mm) roots;
0.1 - 0.2 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/3-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few, fine (1-2mm) roots;
0.2 - 0.3 m	Brown (7.5YR4/3-Moist); Brown (7.5YR5/3-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few, fine (1-2mm) roots;
0.3 - 0.5 m	Brown (7.5YR4/4-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Few, fine (1-2mm) roots;
0.5 - 0.7 m	Brown (7.5YR5/4-Moist); Very pale brown (10YR7/3-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Nodules;
0.7 - 0.9 m	Brown (7.5YR5/4-Moist); Very pale brown (10YR7/3-Dry); ; Loamy sand; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Nodules;

Morphological Notes

Calcrete cap (Bakhava).

Observation Notes

Vegetation is cleared. Soil Family: Unit 20 (Bald Hills). Parent material = Aeolian. Field PPF = Uc5.12?

Site Notes

Landform: near crest of moderately high rise.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	8.5A	0.15A	9.1K	1.2	0.85	0.28			11D	
0.1 - 0.2	8.7A	0.13A								
0.2 - 0.3	8.7A	0.13A	7.8K	1.3	0.57	0.27		10J	10D	2.70
0.3 - 0.5	8.8A	0.13A								
0.5 - 0.7	9.1A	0.13A								
0.7 - 0.9	9.3A	0.16A								

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	68B	1.99A	14E		0.15A				2D	11	6	9
0.1 - 0.2	71B	1.44A							1D	11	6	8
0.2 - 0.3	71B	1.53A							1D	11	5	8
0.3 - 0.5	78B	0.79A										
0.5 - 0.7	79B	0.77A										
0.7 - 0.9	78B	0.8A										

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 - 0.5									
0.5 - 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)