

Project Name: Eyre Peninsula Soil Survey
Project Code: EP **Site ID:** A1217 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Malcolm J. Wright	Locality:	Chilpuddie - Poochera road.
Date Desc.:	18/10/83	Elevation:	No Data
Map Ref.:	1:100000	Rainfall:	No Data
Northing/Long.:	135.13333333	Runoff:	Rapid
Easting/Lat.:	-32.68333333	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:	Crest	Relief:	No Data
Elem. Type:	Dune	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Uc2.21
		Great Soil Group:	Podzol

Site Disturbance:

Vegetation:

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

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Yellowish brown (10YR5/5-Moist); Yellow (10YR7/5-Dry); ; Fine sand; Single grain grade of structure; Very weak consistence; FewClear change to -
0.1 - 0.25 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); ; Fine sand; Single grain grade of structure; Loose consistence; FewDiffuse change to -
0.25 - 0.4 m	Very pale brown (10YR7/4-Moist); Very pale brown (10YR8/4-Dry); ; Fine sand; Single grain grade of structure; Loose consistence; FewDiffuse change to -
0.4 - 0.5 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); ; Fine sand; Single grain grade of structure; Loose consistence; Few
0.5 - 0.6 m	Strong brown (7.5YR5/6-Moist); Reddish yellow (7.5YR7/8-Dry); ; Fine sand; Single grain grade of structure; Very weak consistence; Few
0.6 - 0.75 m	Strong brown (7.5YR5/6-Moist); Reddish yellow (7.5YR6/6-Dry); ; Clay loam, sandy; Massive grade of structure; Weak grade of structure, Platy; Weak consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Few, fine (1-2mm) roots;
0.75 - 0.85 m	Strong brown (7.5YR5/7-Moist); Reddish yellow (7.5YR6/7-Moist); ; Clay loam, sandy; Massive grade of structure; Weak grade of structure, Platy; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.85 - 0.95 m	Reddish yellow (7.5YR6/7-Moist); Reddish yellow (7.5YR7/6-Dry); ; Clay loam, sandy; Massive grade of structure; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.95 - 1.1 m	Reddish yellow (7.5YR7/5-Moist); Reddish yellow (7.5YR8/5-Dry); ; Loamy sand; Single grain grade of structure; Loose consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -
0.95 - 1.1 m	Reddish yellow (7.5YR7/5-Moist); Reddish yellow (7.5YR8/5-Dry); ; Loamy sand; Single grain grade of structure; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -
1.1 - 1.4 m	Reddish yellow (7.5YR6/6-Moist); Reddish yellow (7.5YR7/6-Dry); ; Loamy sand; Single grain grade of structure; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -

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1.1 - 1.4 m	Reddish yellow (7.5YR6/6-Moist); Reddish yellow (7.5YR7/6-Dry); ; Loamy sand; Single grain grade of structure; Loose consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse change to -
1.4 - 1.7 m	Reddish yellow (7.5YR6/5-Moist); Reddish yellow (7.5YR7/5-Dry); ; Loamy sand; Single grain grade of structure; Moderate grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few, fine (1-2mm) roots; Diffuse change to -
1.4 - 1.7 m	Reddish yellow (7.5YR6/5-Moist); Reddish yellow (7.5YR7/5-Dry); ; Loamy sand; Single grain grade of structure; Moderate grade of structure; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few, fine (1-2mm) roots; Diffuse change to -
1.7 - 2 m	Reddish yellow (7.5YR6/6-Moist); Reddish yellow (7.5YR7/6-Dry); ; Loamy sand; Single grain grade of structure; Moderate grade of structure; Loose consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few, fine (1-2mm) roots;
1.7 - 2 m	Reddish yellow (7.5YR6/6-Moist); Reddish yellow (7.5YR7/6-Dry); ; Loamy sand; Single grain grade of structure; Moderate grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few, fine (1-2mm) roots;
1.7 - 2 m	Reddish yellow (7.5YR6/6-Moist); Reddish yellow (7.5YR7/6-Dry); ; Loamy sand; Single grain grade of structure; Moderate grade of structure; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few, fine (1-2mm) roots;

Morphological Notes

Dark specks of organic matter and some roots.
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 Occasional fine roots.
 Colour also contains pale streaks. Possible deposited layering. Gypsum?
 Some infill structures, mainly calcareous.
 Occasional fine roots. Structure is single grained with patches of massive soil.
 Consistence is firm in areas of carbonate concentration.
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 Occasional fine roots and carbonate infill tubule. Structure is single grained with patches of massive soil. Consistence is firm in areas of carbonate concentration.
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Observation Notes

Vegetation: Low mallee-broombush woodland. Parent material is Aeolian. Soil Family: Unit 16 (Poochera).

Site Notes

Landform; Dune-swale : crest of dune. Climate; semi-arid.

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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 - 0.1	7.9A	<0.06A								
0.1 - 0.25	8.1A	<0.06A								
0.25 - 0.4	8.9A	<0.06A								
0.4 - 0.5	8.6A	<0.06A								
0.5 - 0.6	8.9A	0.07A	2.5K	0.62	0.26	0.06		4.1J	3.4D	1.46
0.6 - 0.75	9A	0.08A	4.3K	1.1	0.26	0.15		6.3J	5.9D	2.38
0.75 - 0.85	9.3A	0.09A	4K	1.1	0.21	0.33		4.5J	5.6D	7.33
0.85 - 0.95	9.3A	0.08A								
0.95 - 1.1	9.3A	0.11A								
1.1 - 1.4	9.4A	0.19A								
1.4 - 1.7	9.4A	0.36A								
1.7 - 2	9.9A	0.32A	0.76K	1.4	0.59	0.99		3.3J	3.8D	30.00

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis		
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.24A	3E		0.02A				47D	49	1	3
0.1 - 0.25		0.09A							49D	48	1	2
0.25 - 0.4		0.05A							46D	51	0	2
0.4 - 0.5		0.05A							46D	51	1	2
0.5 - 0.6	<0.1B	0.05A			<0.1A				45D	48	0	6
0.6 - 0.75	0.1B	0.06A			<0.1A				43D	46	1	10
0.75 - 0.85	2.8B	0.12A							44D	45	0	7
0.85 - 0.95	2.2B	0.16A							45D	47	2	5
0.95 - 1.1	5.5B	<0.05A							40D	48	1	4
1.1 - 1.4	3.5B	0.06A							42D	48	1	5
1.4 - 1.7	8.7B	0.16A			0.5A				42D	42	1	5
1.7 - 2	4.5B	<0.05A							41D	48	1	5

[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_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)