

Project Name: Eyre Peninsula Soil Survey
Project Code: EP **Site ID:** A1225 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Malcolm J. Wright	Locality:	South of Colley on the road to Port Kenny, Venus district.
Date Desc.:	20/10/83	Elevation:	No Data
Map Ref.:	1:100000	Rainfall:	No Data
Northing/Long.:	134.7	Runoff:	Rapid
Easting/Lat.:	-33.08333333	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:	Mid-slope	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	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gc1.12
		Great Soil Group:	Solonized brown soil

Site Disturbance:

Vegetation:

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

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); ; Fine sandy loam; Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Abundant, coarse (>5mm) roots;
0.1 - 0.2 m	Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); ; Fine sandy loam; Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Abundant, coarse (>5mm) roots;
0.2 - 0.3 m	Brown (10YR4/3-Moist); Pale brown (10YR6/3-Dry); ; Fine sandy loam; Massive grade of structure; Very weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few
0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Fine sandy loam; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Many (20 - 50 %), Calcareous, , Concretions; Few
0.4 - 0.6 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Sandy loam; Massive grade of structure; Very weak consistence; 2-10%, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions;
0.6 - 0.8 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Fine sandy loam; Massive grade of structure; Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %), Calcareous, , Concretions;
0.8 - 1 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Fine sandy clay loam (Light); Massive grade of structure; Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Many (20 - 50 %), Calcareous, , Nodules;
1 - 1.2 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Fine sandy clay loam; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Very many (50 - 100 %), Calcareous, , Nodules;
1.2 - 1.4 m	Reddish yellow (7.5YR6/5-Moist); Pink (7.5YR7/4-Dry); ; Clay loam; Massive grade of structure; Weak consistence; Very many (50 - 100 %), Calcareous, , Soft segregations; Very many (50 - 100 %), Calcareous, , Nodules;

Morphological Notes

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Some rounded fragments of pupal cases.
Gravels - feruginous and quartzitic.
Derived from granite.

Observation Notes

Vegetation: dense low mallee/broombush woodland. Soil family: Unit 40 (Colley).

Site Notes

Landform: Mid-slope to granite high.

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[illegible]

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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)