Project Name: Southern Merray Basin

Project Code: SMB Site ID: A960 Observation ID: 1

Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: G. Blackburn Locality:

 Date Desc.:
 25/08/65
 Elevation:
 49 metres

 Map Ref.:
 Rainfall:
 330

Northing/Long.: 141.95 Runoff: Moderately rapid Easting/Lat.: -35.4 Drainage: Moderately drained

<u>Geology</u>

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

Land Form

Rel/Slope Class:Rolling low hills 30-90m 10-Pattern Type:Low hillsMorph. Type:Closed DepressionRelief:46 metresElem. Type:LagoonSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHyperbasic Regolithic Calcic CalcarosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

No analytical data are available but confidence is fair.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals <u>Vegetation:</u> Low Strata - Tussock grass, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m ; Silty loam; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

0.05 - 0.15 m ; Silty loam; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft

segregations:

0.15 - 0.2 m ; Silty loam; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

0.21 - 0.38 m ; Silty loam; Few (2 - 10 %), Calcareous, , Soft segregations;

0.38 - 0.58 m ; Silty loam; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %),

Gypseous, , ;

0.58 - 0.8 m ; Silty loam; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Gypseous, , ;

0.85 - 1.13 m ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

1.13 - 1.31 m ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

1.31 - 1.61 m ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

1.61 - 1.76 m ; Medium clay; Very weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;

1.8 - 2 m ; Medium clay; Common (10 - 20 %), Gypseous, , Crystals;

2 - 2.15 m ; Medium clay; Common (10 - 20 %), Gypseous, , Crystals; Abundant, fine (1-2mm) roots;

2.15 - 2.55 m ; Medium clay; Common (10 - 20 %), Gypseous, , Crystals;

2.55 - 2.75 m ; Medium clay;

Morphological Notes

Observation Notes

21-58CM WHITE FLECKS POSSIBLY GYPSUM:

Site Notes

WEEAH

Southern Merray Basin SMB Site ID: A CSIRO Division of Soils (SA) A960 Observation ID: 1

Project Name: Project Code: Agency Name:

Depth	рН	1:5 EC	Exc	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECE) E	SP
m		dS/m	Ca	wg	K	Cmol (+)				9/	ó
0 - 0.05 0.05 - 0.15 0.15 - 0.2 0.21 - 0.38 0.38 - 0.58 0.58 - 0.8	7.9H 8.3H 8.2H 8H 8H 8.1H	0.21C 0.0950 0.63C	0								
0.85 - 1.13 1.13 - 1.31 1.31 - 1.61 1.61 - 1.76 1.8 - 2 2 - 2.15	8.2H 8.2H 8.2H 8.6H 8.2H 8.3H	4.5C 3.2C 2.7C									
2.15 - 2.55 2.55 - 2.75	8.4H 8.3H	4.8C									
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Partic GV C		Analysis Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%		-
0 - 0.05 0.05 - 0.15 0.15 - 0.2 0.21 - 0.38 0.38 - 0.58 0.58 - 0.8 0.85 - 1.13 1.13 - 1.31 1.31 - 1.61 1.61 - 1.76 1.8 - 2 2 - 2.15 2.15 - 2.55 2.55 - 2.75	20C 25C 38C 15C 19C 7.8C 9.2C 24C 25C 17C 12C 6.9C 26C				0.23	3B			4C 8		53 47
Depth	COLE			vimetric/Vo					K sat	K unsat	
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 1	I5 Bar r	nm/h	mm/h	
0 - 0.05 0.05 - 0.15 0.15 - 0.2 0.21 - 0.38 0.38 - 0.58 0.58 - 0.8 0.85 - 1.13 1.13 - 1.31 1.31 - 1.61 1.61 - 1.76 1.8 - 2 2 - 2.15 2.15 - 2.55 2.55 - 2.75											

Southern Merray Basin SMB Site ID: A CSIRO Division of Soils (SA) A960 Observation ID: 1

Project Name: Project Code: Agency Name:

Project Name: Southern Merray Basin

Project Code: Agency Name: SMB Site ID: A960 Observation ID: 1

CSIRO Division of Soils (SA)

Laboratory Analyses Completed for this profile

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2_LOI Loss on Ignition (%) 2A1 Air-dry moisture content

Electrical conductivity or soluble salts - Total soluble salts % pH of soil - Not recorded

3A_TSS 4_NR

Water soluble Chloride - Cl(%) - Not recordede Total nitrogen (%) - Not recorded 5_NR

7_NR

P10_NR_C

Clay (%) - Not recorded Coarse sand (%) - Not recorded P10_NR_CS P10_NR_FS Fine sand (%) - Not recorded P10_NR_Z Silt (%) - Not recorded