Project Name: **Yudnapina Station, S.A.**
Project Code: **YS1** **Site ID:** **A210** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: E.A. Jackson
Locality: UNGRAZED FOR A NUMBER OF YEARS DUE TO LACK OF WATER IN THE AREA
Date Desc.: 18/08/55
Elevation: 110 metres
Map Ref.:
Rainfall: 0
Northing/Long.: 136.938333333333
Runoff: Moderately rapid
Easting/Lat.: -31.8730555555556
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Rolling plains <9m 10-32%
Pattern Type: Rises
Morph. Type: No Data
Relief: 6 metres
Elem. Type: Hillslope
Slope Category: Moderately inclined
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Marly Leptic Calcarosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Tall Strata - , , . *Species includes - Atriplex vesicaria

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m	Yellowish red (5YR5/6-Moist); ; Sandy loam; 2-10%, coarse fragments; Abrupt change to -
0.03 - 0.15 m	Yellowish red (5YR5/8-Moist); ; Sandy clay loam; 0-2%, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Abrupt change to -
0.15 - 0.25 m	Yellowish red (5YR5/6-Moist); ; Sandy clay loam; 20-50%, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Abrupt change to -
0.25 - 0.46 m	; 50-90%, Quartzite, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations;

Morphological Notes

white calcareous material

Observation Notes

ABOVE QUARTZITE: NON PENETRABLE STONE AT 58 cm
NOT
CONSIDERED TO BE TYPICAL PHOSPHOROUS ON ACCOUNT OF FREE CARBONATE AT SURFACE & RELATIVELY DEEP CARBONATE HORIZON

Site Notes

N-W PASTORAL

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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 - 0.03	8.4H	0.023C								
0.03 - 0.15	8.6H	0.16C								
0.15 - 0.25	8.4H	0.43C								
0.25 - 0.46	8.7H	0.58C								

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 - 0.03	0.08C				0.044B			4	40C	31	7	20
0.03 - 0.15	1.6C			0.014F		0.48B		16	41C	28	9	20
0.15 - 0.25	6.8C											
0.25 - 0.46	38C											

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 - 0.03									
0.03 - 0.15									
0.15 - 0.25									
0.25 - 0.46									

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Laboratory Analyses Completed for this profile

17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded