Project Name: Yudnapina Station, S.A.

Project Code: Site ID: A202 Observation ID: 1

CSIRO Division of Soils (SA) Agency Name:

Site Information

Desc. By: E.A. Jackson Locality: SHEEP GRAZING ON NATIVE FLORA Date Desc.:

Elevation: 19/05/55 305 metres

Map Ref.: Rainfall:

Northing/Long.: Runoff: 137.579722222222 Moderately rapid Easting/Lat.: -32.106944444445 Moderately well drained Drainage:

Geology

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

Land Form

Rel/Slope Class: Undulating hills 90-300m 3-Pattern Type: Plateau Morph. Type: Crest Relief: 215 metres Elem. Type: Summit surface Slope Category: Gently inclined 0 % Aspect: No Data Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Sodic Pedaric Class Undetermined Dermosol **Principal Profile Form:** N/A **ASC Confidence: Great Soil Group:** N/A

No analytical data are available but confidence is fair.

Site Disturbance:

Vegetation:

Mid Strata - , , . *Species includes - Casuarina cristata Tall Strata - , , . *Species includes - Atriplex vesicaria

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m ; Sandy loam; 50-90%, coarse gravelly, 20-60mm, Quartzite, coarse fragments; Clear change to -

0.03 - 0.15 m ; Medium clay; 2-10%, Quartzite, coarse fragments; Common, medium (2-5mm) roots; Diffuse

0.15 - 0.3 m ; Medium clay; 2-10%, Quartzite, coarse fragments; , Calcareous, Medium (2 -6 mm), Soft

segregations; FewDiffuse change to

; Medium clay; 50-90%, stony, 200-600mm, Quartzite, coarse fragments; , Calcareous, Medium 0.3 - 0.41 m

(2 -6 mm), Soft segregations; Clear change to -

0.41 - 0.76 m ; 2-10%, Quartzite, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; ,

Gypseous, , Soft segregations; Diffuse, Irregular change to -

0.76 - 1.06 m

Morphological Notes

weathered quartzite with gyspum in the cracks

Observation Notes

SURFACE COVERED WITH IRREGULAR IRONSTAINED QUARTZITE FRAGMENTS 1-15 cm IN DIAMETER. LARGER QUARTZITE PIECES FLATTENED

Site Notes

N-W PASTORAL

Project Name: Project Code: Agency Name: Yudnapina Station, S.A.

A202 Observation ID: 1

YS1 Site ID: A: CSIRO Division of Soils (SA)

Laboratory Test Results:

	Depth	рН	1:5 EC Ca	Exchangeable Cations Mg K	Exchangeable Na Acidity	CEC	ECEC	ESP
	m		dS/m	Mg K	Cmol (+)/kg			%
	0 - 0.03	8H	0.083C					
	0.03 - 0.15	8.6H	0.57C					
	0.15 - 0.3	8.2H	1.1C					
	0.3 - 0.41	8.4H	1.8C					
	0.41 - 0.76	8.1H						
	0.76 - 1.06							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysi	s
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.03 0.03 - 0.15 0.15 - 0.3 0.3 - 0.41 0.41 - 0.76 0.76 - 1.06	0.020 0.120 1.8C 13C 0.490			0.02F	0.082B	0.52B		23 2	35C 21C	-		8 47

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 - 0.3 0.3 - 0.41 0.41 - 0.76 0.76 - 1.06

Project Name: Yudnapina Station, S.A.

Project Code: YS1 Site ID: A202 Observation ID: 1

Agency Name: **CSIRO** Division of Soils (SA)

Laboratory Analyses Completed for this profile

Total element - K(%) - Not recorded 17A_NR

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 Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_CS P10_NR_FS P10_NR_Z Silt (%) - Not recorded XRD_C_Ct XRD_C_Hm Calcite - X-Ray Diffraction Hematite - X-Ray Diffraction XRD_C_II Illite - X-Ray Diffraction

Interstratified clay minerals - X-Ray Diffraction

XRD_C_Is XRD_C_Ka XRD_C_Qz XRD_C_St Kaolin - X-Ray Diffraction Quartz - X-Ray Diffraction Smectite - X-Ray Diffraction