AS₁ **Project Name:**

NT59 Observation ID: 1 **Project Code:** AS₁ Site ID:

CSIRO Division of Soils (NT) Agency Name:

Site Information

Desc. By: F.A. Jackson Locality:

Elevation: Date Desc.: 23/09/59 762 metres 0

Map Ref.: Rainfall: Northing/Long.: 133.193055555556 Runoff: Slow

-23.487777777778 Imperfectly drained Easting/Lat.: Drainage:

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Plain Morph. Type: Flat Relief: 0 metres Elem. Type: Slope Category: No Data Plain No Data 0 % Aspect: Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Epicalcareous Epipedal Red Vertosol **Principal Profile Form:** N/A **ASC Confidence: Great Soil Group:** Red clay

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance other than grazing by hoofed animals Low Strata - Tussock grass, , . *Species includes - Astrebla species Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m Reddish brown (2.5YR5/4-Moist); ; Medium clay; , Platy; Very firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Clear

change to -

0.03 - 0.08 m Reddish brown (2.5YR4/4-Moist); ; Medium clay; 10-20 mm, Angular blocky; Firm consistence;

0-2%, fine gravelly, 2-6mm, Gravel, coarse fragments; Very few (0 - 2 %), Calcareous, ,

Concretions; Many, very fine (0-1mm) roots; Diffuse change to -

0.08 - 0.33 m Reddish brown (2.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm,

Polyhedral; Strong consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2

%), Calcareous, , Soft segregations; Few, very fine (0-1mm) roots; Diffuse change to

0.33 - 0.81 m Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Moderate grade of structure, Polyhedral;

Strong consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Few, very fine (0-1mm) roots; Diffuse change to -

Dark red (2.5YR3/6-Moist); ; Medium clay; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Sand, coarse fragments; Few (2 - 10 %), Gypseous, , ; Diffuse change to -0.81 - 1.11 m

Red (2.5YR4/6-Moist); ; Light medium clay; Single grain grade of structure; Firm consistence; 0-1.11 - 1.45 m

2%, angular, Quartz, coarse fragments; Very few (0 - 2%), Calcareous, , Soft segregations;

Common (10 - 20 %), Gypseous, , ; Clear change to -

1.45 - 1.65 m Red (2.5YR4/8-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Polyhedral; Firm

consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Common (10 - 20 %),

Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

ALICE SPRINGS

Project Name: AS1
Project Code: AS1 Site ID: NT59
Agency Name: CSIRO Division of Soils (NT) Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Excl	Exchangeable Cations		Exchangeable		CEC		ECEC		SP	
m	•				()	Na Acidity Cmol (+)/kg						%	
0 - 0.03	7.7H	0.022C											
0.03 - 0.08	8.3H	0.025C											
0.08 - 0.33	9.1H	0.059C											
0.33 - 0.81	8.6H	0.36C											
0.81 - 1.11	8.1H												
1.11 - 1.45	8.1H												
1.45 - 1.65	8.1H												
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size A	Analysis Silt		
m	%	%	mg/kg	%	%	%	Mg/m3	٠.	00	%	O	o.u,	
0 - 0.03		0.52E		0.015F	0.048E	-		4	29C	30	9	32	
0.03 - 0.08	0.13C	0.42E		0.012F	0.043E	3 0.45B							
0.08 - 0.33	1.2C							_	250	25	_	40	
0.33 - 0.81 0.81 - 1.11	1.4C 1C				0.017E	2		2	25C	25	5	40	
1.11 - 1.45	2.2C				0.017)							
1.45 - 1.65	17C												
1.43 - 1.03	170												
Depth	COLE	Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar						K sa	t	K unsat	:		
m		Sat.	0.05 Bar		0.5 Bar - m3/m3	1 Bar 5	5 Bar 15	oar	mm/	h	mm/h		
0 - 0.03													
0.03 - 0.08													
0.08 - 0.33 0.33 - 0.81													
0.33 - 0.61													

0.81 - 1.11 1.11 - 1.45 1.45 - 1.65

Project Name: AS1

Project Code: AS1 Site ID: NT59 Observation ID: 1

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

Laboratory Analyses Completed for this profile

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

Calcium Carbonate (CaCO3) - Not recorded 19B_NR

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

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

Organic carbon (%) - Not recorded
Total nitrogen (%) - Not recorded
Total element - P(%) - Not recorded 6Z 7_NR 9A_NR

P10_GRAV

Gravel (%)
Clay (%) - Not recorded P10_NR_C P10_NR_CS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded