Project Name: AS1

Project Code: AS1 Site ID: NT1 Observation ID: 1

Agency Name: CSIRO Division of Soils (NT)

Site Information

Desc. By: E.A. Jackson Locality:

Date Desc.: 14/06/57 Elevation: 396 metres

Map Ref.: Rainfall: 0

Northing/Long.: 134.635 Runoff: Moderately rapid

Easting/Lat.: -23.98 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: No Data

1-3%

Morph. Type:No DataRelief:No DataElem. Type:No DataSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ACalcic Subnatric Red SodosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Solodic soil

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

Vegetation:

Tall Strata - Shrub, , . *Species includes - Acacia georginae

Surface Coarse Fragments:

Profile Morphology

0 - 0.13 m Red (2.5YR4/6-Moist); ; Loamy sand; , Platy; Loose consistence; Sharp change to -

0.13 - 0.25 m Dark red (10R3/6-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Prismatic; Strong

grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Few, fine (1-2mm) roots;

Diffuse change to -

0.25 - 0.43 m Dark red (10R3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky;

Firm consistence; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Concretions;

0.43 - 0.78 m Weak red (10R4/4-Moist); ; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky;

Weak consistence; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Concretions; Diffuse

change to -

0.78 - 0.91 m Red (10R4/6-Moist); ; Medium clay; Weak grade of structure, Angular blocky; Very weak

consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions;

1.12 - 1.27 m

Morphological Notes

SHATTERED FINE GRAINED ROCK:

Observation Notes

Site Notes

ALICE SPRINGS

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Laboratory Test Results:

Depth p	Н	1:5 EC C		changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	u	g		Cmol (%
0 - 0.13	7H		2.4K	_	0.72	0.12				
	8.1H 8.5H	0.26C 0.54C	9.9K	9.8	1.5	2.7				
0.43 - 0.78	8.3H	0.76C								
0.78 - 0.91 1.12 - 1.27	8.3H	0.83C								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.13		0.31E		0.019F	0.035B			65	7C	80	6	5
0.13 - 0.25	0.010	;		0.024F	0.042B			20	3C	38	10	47
0.25 - 0.43	0.820	,							4C	46	7	40
0.43 - 0.78	2.3C								4C	49	0	41
0.78 - 0.91	1.5C							61	7C	54	9	30
1.12 - 1.27												

Depth	COLE		Gravimetric/Volumetric Water Contents							K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		a/a - m3/m3							mm/h	mm/h

0 - 0.13 0.13 - 0.25 0.25 - 0.43 0.43 - 0.78 0.78 - 0.91 1.12 - 1.27

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Laboratory Analyses Completed for this profile

15_NR_CAExch. basic cations (Ca++) - meq per 100g of soil - Not recorded15_NR_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15_NR_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15_NR_NAExch. basic cations (Na++) - meq per 100g of soil - 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

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

P10_GRAV Gravel (%)

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