Project Name: Sandstone Yalgoo Paynes Find rangeland survey
Project Code: SYP **Site ID:** I682 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Peter Hennig
Date Desc.: 26/09/93
Map Ref.:
Northing/Long.: 6867599 AMG zone: 50
Easting/Lat.: 653324 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Landform

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: %
Pattern Type: No Data
Relief: 5 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Self-mulching

Erosion

Soil Classification

Australian Soil Classification:
Epihypersodic Pedal Red Vertosol Non-gravelly Fine
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Ug5.38
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A 0 - 0.03 m Dark reddish brown (2.5YR3/4-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Very weak consistence; 10-20%, rounded, , coarse fragments; 2-10%, rounded, , coarse fragments; Field pH 9 (pH meter); Abrupt, Smooth change to -

B21 0.03 - 0.15 m Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Very firm consistence; 10-20%, rounded, Consolidated rock (unidentified), coarse fragments; 2-10%, rounded, , coarse fragments; Field pH 9 (pH meter); Clear, Smooth change to -

B22 0.15 - 0.4 m Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Strong consistence; Field pH 9 (pH meter); Gradual change to -

B23 0.4 - 1 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong consistence; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.01 - 0.02	8.8H	8B	18.63E	4.24	0.87	0.69		23J	24.43D	3.00
0.02 - 0.05	8.9H	7B	14.16E	3.85	0.5	4.84		22J	23.35D	22.00
0.05 - 0.15	9.5H	35B	12.36E	3.46	0.49	4.24		21J	20.55D	20.19
0.2 - 0.4	9.5H	18B	15.17E	3.97	0.44	2.65		21J	22.23D	12.62

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0.01 - 0.02		0.33D		100B	0.036E				47I		12
41											
0.02 - 0.05		0.27D		100B	0.039E				45.5I		12
42.5											
0.05 - 0.15		0.2D		65B	0.018E				49I		10.5
40.5											
0.2 - 0.4		0.12D		53B	0.011E						

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for soluble salts	
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations and measured clay	
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded