

Project Name: Sandstone Yalgoo Paynes Find rangeland survey
Project Code: SYP **Site ID:** I451 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mark Newell
Date Desc.: 21/07/93
Map Ref.:
Northing/Long.: 7003136 AMG zone: 50
Easting/Lat.: 719922 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: 5 %
Pattern Type: No Data
Relief: 50 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Cryptogam surface, Hardsetting

Erosion

Soil Classification

Australian Soil Classification:
 Petroclitic Lithocalcic Calcarosol Slightly gravelly Clay-loamy
 Clay-loamy Shallow
Mapping Unit: N/A
Principal Profile Form: Gc1.12
ASC Confidence:
 Analytical data are incomplete but reasonable confidence.
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A 0 - 0.15 m Red (2.5YR4/6-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric;
 Dry; Very firm
 consistence; 2-10%, subrounded, Calcrete, coarse fragments; Soil matrix is Slightly
 calcareous; Field
 pH 9 (Raupach); Clear, Smooth change to -
 B 0.15 - 0.45 m Red (2.5YR4/6-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric;
 Dry; Very firm
 consistence; 2-10%, subrounded, Calcrete, coarse fragments; Few (2 - 10 %),
 Calcareous, Medium (2 -
 6 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9 (Raupach);
 K? 0.45 - m ; Calcrete;

Morphological Notes

Observation Notes

Site Notes

Slope previously codes as 50.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.01 - 0.02	8.5H	15B	8.47E	2.46	1.23	0.02		11J	12.18D	0.18
0.02 - 0.05	8.8H	9B	9.95E	2.78	1.16	0.04		12J	13.93D	0.33
0.1 - 0.2	9.2H	19B	9.45E	3.67	1.34	0.95		14J	15.41D	6.79
	9.2H		9.45E	3.67	1.34	0.95		14J	15.41D	
0.1 - 0.2	9.2H	19B	9.45E	3.67	1.34	0.95		14J	15.41D	6.79
	9.2H		9.45E	3.67	1.34	0.95		14J	15.41D	

0.2 - 0.3 9.2H 26B 7.44E 3.37 1.69 1.2 13J 13.7D 9.23

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0.01 - 0.02 11		1.03D		180B	0.111E				73I		16
0.02 - 0.05 11.5		0.62D		140B	0.07E				70I		18.5
0.1 - 0.2 30		0.46D		110B	0.048E				54I		16
		0.46D 30		110B	0.048E				54I		16
0.1 - 0.2 30		0.46D		110B	0.048E				54I		16
		0.46D 30		110B	0.048E				54I		16
0.2 - 0.3 11		0.35D		120B	0.038E				81I		8

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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_K	soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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

