

**Project Name:** Sandstone Yalgoo Paynes Find rangeland survey  
**Project Code:** SYP **Site ID:** I096 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Sandra van Vreeswyk  
**Date Desc.:** 27/10/91  
**Map Ref.:**  
**Northing/Long.:** 6794747 AMG zone: 50  
**Easting/Lat.:** 521701 Datum: AGD84  
**Locality:**  
**Elevation:** No Data  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** No Data

#### Geology

**Exposure Type:** No Data  
**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:** 0.2 %  
**Pattern Type:** No Data  
**Relief:** 10 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Surface crust, Hardsetting

#### Erosion

#### Soil Classification

**Australian Soil Classification:**  
 Duric Red Dermosol Thin Non-gravelly Clay-loamy Clayey  
 Moderately deep  
**Mapping Unit:** N/A  
**Principal Profile Form:** Uf 6.71  
**ASC Confidence:**  
 No analytical data are available but confidence is fair.  
**Great Soil Group:** N/A

#### Site Disturbance

#### Vegetation

#### Surface Coarse Fragments

#### Profile Morphology

A	- 0.05 m	Red (2.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Firm consistence; Field
		pH 7 (Raupach);
B1	0.05 - 0.4 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Very firm consistence; 2-
		10%, medium gravelly, 6-20mm, rounded, Calcrete, coarse fragments; Very few (0 - 2 %), Calcareous,
		Fine (0 - 2 mm), Soft segregations; Field pH 9.5 (Raupach);
B21	0.4 - 0.8 m	Red (2.5YR4/8-Moist); ; Light medium clay; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded,
		Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations;
		Field pH 9.5 (Raupach);
B22	0.8 - 1 m	; Light medium clay; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Ferricrete, coarse
		fragments; Field pH 9.5 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Slope previously codes as 2.

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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 - 0.01	8.4H	210B	2.59E	1.72	1.65	2		6J	7.96D	33.33
0.01 - 0.05	9.1H	48B	2.74E	2.02	1.92	2.2		9J	8.88D	24.44

0.2 - 0.4	9H	180B	0.67E	2.49	2.46	7.08	11J	12.7D	64.36
0.4 - 0.6	8.9H	620B	2.12E	4.91	2.4	9.76	13J	19.19D	75.08

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.01				240B	0.045E			
0.01 - 0.05				260B	0.046E			
0.2 - 0.4				200B	0.03E			
0.4 - 0.6				150B	0.027E			

#### **Laboratory Analyses Completed for this profile**

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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour