

**Project Name:** Sandstone Yalgoo Paynes Find rangeland survey  
**Project Code:** SYP **Site ID:** I040 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Peter Hennig  
**Date Desc.:** 16/09/92  
**Map Ref.:**  
**Northing/Long.:** 6852035 AMG zone: 50  
**Easting/Lat.:** 766950 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:** 15 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Firm

#### Erosion

#### Soil Classification

**Australian Soil Classification:** Orthic Tenosol Thin Non-gravelly Sandy Sandy Deep  
**ASC Confidence:** All necessary analytical data are available.  
**Mapping Unit:** N/A  
**Principal Profile Form:** Uc5.21  
**Great Soil Group:** N/A

#### Site Disturbance

#### Vegetation

#### Surface Coarse Fragments

#### Profile Morphology

A11 0 - 0.08 m Dark red (2.5YR3/6-Moist); ; Loamy sand; Strong grade of structure; Smooth-ped fabric; Very weak  
 consistence; Field pH 6 (pH meter); Abrupt, Smooth change to -  
 A12 0.08 - 1 m Red (2.5YR4/6-Moist); ; Loamy sand; Strong grade of structure; Smooth-ped fabric; Very weak  
 consistence; Field pH 6.5 (pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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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 - 0.05	6.3H	1B	0.71H	0.49	0.13	<0.02	0.02J		1.34D	
0.1 - 0.2	6.6H	1B	0.78A	0.4	0.18	<0.02		2J	1.37D	
0.4 - 0.5	7.6H	1B	1.1A	0.8	0.22	0.12		2J	2.24D	6.00

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.05				88B	0.016E				
0.1 - 0.2				80B	0.014E				
0.4 - 0.5				70B	0.014E				

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

15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_K for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
salts	
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn <sup>2+</sup> ) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no 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
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour