

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0757 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Jaki Hogstrom  
**Date Desc.:** 27/04/93  
**Map Ref.:**  
**Northing/Long.:** 6305270 AMG zone: 50  
**Easting/Lat.:** 457010 Datum: AGD84  
**Locality:**  
**Elevation:** 260 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Poorly drained

#### Geology

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

#### Land Form

**Rel/Slope Class:** Level plain <9m <1%  
**Morph. Type:** Flat  
**Elem. Type:** Valley flat  
**Slope:** 0 %  
**Pattern Type:** Low hills  
**Relief:** 0 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Hardsetting, Hardsetting

**Erosion:** (wind); (sheet) (rill) (gully)

#### Soil Classification

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy2.43  
**ASC Confidence:** Confidence level not specified  
**Great Soil Group:** N/A

**Site** Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation:

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

#### Profile

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Dry; Very weak consistence; Field pH
		5.5 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Wavy change to -
A2e	0.05 - 0.1 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Dry; Loose consistence; Field pH 6 (Raupach); Many, fine
		(1-2mm) roots; Abrupt, Wavy change to -
B2	0.1 - 0.55 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 5YR56, 10-20% , 0-5mm, Distinct; Medium heavy clay;
		Moderate grade of structure, 50-100 mm, Columnar; Rough-ped fabric; Moderately moist; Strong
		consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to -
C	0.55 - 0.65 m	Greyish brown (2.5Y5/2-Moist); , 0-0% ; Medium clay; Massive grade of structure; Moderately moist;
		Firm consistence; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots;

#### Morphological Notes

A2e Wavy to 15cm  
 B2 Parting to 5 PO

#### Observation Notes

#### Site Notes

Vegetation shrubby - seems typical of broad valleys in this area

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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 - 0.1	4.6B									
	4.6B									
0 - 0.1	4.6B									

0.1 - 0.3	4.6B											
	5.2B	7B	4.06A	11.56	0.16	1.62						17.4D
	6.6H											
0.1 - 0.3	5.2B	7B	4.06A	11.56	0.16	1.62						17.4D
	6.6H											
0.15 - 0.25	4.8B											
0.4 - 0.5	6.6B											

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>				%	
0 - 0.1												
0 - 0.1												
0.1 - 0.3										47.5l		8.5
44												
0.1 - 0.3										47.5l		8.5
44												
0.15 - 0.25												
0.4 - 0.5												

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	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
for soluble	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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
15A1_MG	salts
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
15A1_NA	salts
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
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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded