

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0144 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 04/12/91  
**Map Ref.:**  
**Northing/Long.:** 6332150 AMG zone: 50  
**Easting/Lat.:** 500270 Datum: AGD84  
**Locality:**  
**Elevation:** 298 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Well drained

#### Geology

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

#### Land Form

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

**Morph. Type:** Upper-slope  
**Elem. Type:** Hillslope  
**Slope:** 2 %  
**Relief:** 15 metres  
**Slope Category:** No Data  
**Aspect:** 180 degrees

#### Surface Soil Condition Firm

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

#### Soil Classification

**Australian Soil Classification:** Bleached-Ferric Mesotrophic Yellow Chromosol  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy5.82  
**ASC Confidence:** All necessary analytical data are available.  
**Great Soil Group:** N/A

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

#### Vegetation:

**Surface Coarse** 10-20%, medium gravelly, 6-20mm, rounded, Ironstone; No surface coarse fragments

#### Profile

**A1** 0 - 0.06 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sand; Weak grade of structure, Subangular blocky; Rough-ped fabric; Dry; 20-50%, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Water repellent; Field pH 5.5 (Raupach); Abrupt, Smooth change to -  
  
**A2e** 0.06 - 0.3 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Sandy (grains) prominent) fabric; Dry; 50-90%, Ironstone, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 6 (Raupach); Clear, Irregular change to -  
  
**B21** 0.3 - 0.65 m Brownish yellow (10YR6/8-Moist); Mottles, 10YR64, 20-50% , 15-30mm, Distinct; Sandy clay loam; Weak grade of structure, 2-5 mm, Polyhedral; Dry; 20-50%, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 7 (Raupach); Gradual, Smooth change to -  
  
**B22t** 0.65 - 1.1 m Brownish yellow (10YR6/8-Moist); Mottles, 10YR78, 20-50% , 15-30mm, Faint; Clay loam, sandy; Massive grade of structure; Dry; 10-20%, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 7 (Raupach);

#### Morphological Notes

**A1** F S QZ/IS & M U IS  
**A2e** M U IS  
**B21** F,M U IS  
**B22t** F,M U IS

#### Observation Notes

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Observation 1

#### 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 - 0.06	5B	24B	3.83H	1.04	0.84	0.19	0.14J		5.9D	
	5.8H									
0 - 0.06	5B	24B	3.83H	1.04	0.84	0.19	0.14J		5.9D	
	5.8H									
0.06 - 0.3	5.1B	4B	1.41H	0.43	0.22	0.07	0.06J		2.13D	
	6.2H									
0.06 - 0.3	5.1B	4B	1.41H	0.43	0.22	0.07	0.06J		2.13D	
	6.2H									
0.3 - 0.65	5.8B	5B	1.69H	1.17	0.27	0.12	<0.02J		3.25D	
	6.4H									
0.3 - 0.65	5.8B	5B	1.69H	1.17	0.27	0.12	<0.02J		3.25D	
	6.4H									
0.65 - 1.1	6.3B	6B	1.11H	1.71	0.11	0.14	0.03J		3.07D	
	6.6H									
0.65 - 1.1	6.3B	6B	1.11H	1.71	0.11	0.14	0.03J		3.07D	
	6.6H									

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 - 0.06		2.85D		280B	0.216E			5
0 - 0.06		2.85D		280B	0.216E			5
0.06 - 0.3		0.69D		61B	0.036E			4.1
0.06 - 0.3		0.69D		61B	0.036E			4.1
0.3 - 0.65		0.39D		50B	0.021E			4.6
0.3 - 0.65		0.39D		50B	0.021E			4.6
0.65 - 1.1		0.24D		34B	0.011E			8
0.65 - 1.1		0.24D		34B	0.011E			8

#### Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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 (Mn2+) 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
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity

P10\_1m2m      1000 to 2000u particle size analysis, (method not recorded)

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P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)