

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 2006 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** John-Paul Van Moort  
**Date Desc.:** 15/03/94  
**Map Ref.:**  
**Northing/Long.:** 6295880 AMG zone: 50  
**Easting/Lat.:** 474700 Datum: AGD84  
**Locality:**  
**Elevation:** 260 metres  
**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

#### Land Form

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

**Morph. Type:** Lower-slope  
**Elem. Type:** Hillslope  
**Slope:** %  
**Relief:** 20 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Soft

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

#### Soil Classification

**Australian Soil Classification:** N/A  
**ASC Confidence:** Confidence level not specified  
**Mapping Unit:** N/A  
**Principal Profile Form:** N/A  
**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 Dark brown (10YR3/3-Moist); , 0-0% ; Fine sandy loam; Single grain grade of structure; Dry; Loose  
 consistence; 20-50%, fine gravelly, 2-6mm, , coarse fragments; Water repellent; Field pH 5.5 (Raupach);  
 Clear change to -  
**A** 0.05 - 0.25 m Reddish yellow (7.5YR6/6-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Dry; 50-90%,  
 fine gravelly, 2-6mm, , coarse fragments; Field pH 6.5 (Raupach); Clear change to -  
**B** 0.25 - 0.75 m Reddish yellow (7.5YR6/8-Moist); , 0-0% ; Silty clay loam; Massive grade of structure; Moist; 50-90%,  
 fine gravelly, 2-6mm, , coarse fragments; Field pH 6.5 (Raupach); Gradual change to -  
**B** 0.75 - 1 m Brownish yellow (10YR6/8-Moist); , 0-0% ; Silty clay loam; Massive grade of structure; Moist; 50-90%,  
 fine gravelly, 2-6mm, , coarse fragments; Field pH 6.5 (Raupach); Clear change to -  
**C** 1 - 1.8 m Brownish yellow (10YR6/8-Moist); Mottles, 10YR72, 20-50% ; , 7.5YR73, 20-50% ; Clay loam; Massive  
 grade of structure; Moist; 50-90%, fine gravelly, 2-6mm, , coarse fragments; Field pH 7 (Raupach);

#### Morphological Notes

**B** Cemented, stopped digging by cementation of this horizon. White.

#### Observation Notes

#### Site Notes

Soil pit - Date Creek Catchment - gravelly loam over gravelly clay - yellow brown gravelly loam. Pit located on Rutherford's property  
 "Goldmead" at Capercup. On corner of Lloyd and Capercup North Roads.

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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	5.1B	10B	7.68H	0.79	0.07	0.22	0.34J		8.76D	
0.05 - 0.25	5.7H	3B	5.16H	0.92	0.08	0.1	0.02J		6.26D	
0.25 - 0.5	5.5B	4B	4.61A	1.79	0.07	0.13		6J	6.6D	2.17
0.75 - 1	6.3H	3B	2.13A	2.05	0.03	0.12		5J	4.33D	2.40
1 - 1.4	6.5B	4B	1.35A	2.01	0.05	0.1		4J	3.51D	2.50
	7.3H									
	6.3B									
	7H									
	6.4B									
	6.8H									

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		3.99D		500B	0.313E				11.4
4.2									
0.05 - 0.25		0.95D		120B	0.054E				9.6
15.8									
0.25 - 0.5		0.28D		95B	0.02E				11
28									
0.75 - 1		0.34D		87B	0.025E				9.7
33.8									
1 - 1.4		0.18D		65B	0.015E				6.5
31.5									

### 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_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
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
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
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)
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_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)