

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0823 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 25/05/93  
**Map Ref.:**  
**Northing/Long.:** 6241140 AMG zone: 50  
**Easting/Lat.:** 537350 Datum: AGD84  
**Locality:**  
**Elevation:** 322 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Well 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:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

**Morph. Type:** Mid-slope  
**Elem. Type:** Hillslope  
**Slope:** 3 %  
**Relief:** 20 metres  
**Slope Category:** No Data  
**Aspect:** 90 degrees

#### Surface Soil Condition Loose

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

#### Soil Classification

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy4.21  
**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** 0-2%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

#### Profile

Ap 0 - 0.12 m structure; Moist; fragments; 2-10%, very fine (0-	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Single grain grade of Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Many, 1mm) roots; Abrupt change to -
A2 0.12 - 0.3 m Loose 50%, medium fine (0-1mm)	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20- gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, very roots; Clear change to -
B2 0.3 - 0.5 m light clay; 50%, medium subangular, Quartz, pH 6	Yellowish brown (10YR5/6-Moist); Mottles, 10R46, 2-10% , 0-5mm, Prominent; Sandy Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 20- gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, fine gravelly, 2-6mm, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B3 0.5 - 0.65 m Moist; Firm (20 - 50 %), roots;	Yellowish brown (10YR5/8-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; consistence; 50-90%, medium gravelly, 6-20mm, subangular, , coarse fragments; Many Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm)

#### Morphological Notes

A2 KS in CMS  
 B3 Stopped by gravel

#### Observation Notes

## Site Notes

Birt Road

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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	4.8B									
0.15 - 0.25	4.4B									
0.3 - 0.5	4.9B	3B	0.81H	1.94	<0.02	0.15	0.05J		2.91D	
	5.7H									
0.3 - 0.5	4.9B	3B	0.81H	1.94	<0.02	0.15	0.05J		2.91D	
	5.7H									
0.4 - 0.5	5B									

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 - 0.1									
0.15 - 0.25									
0.3 - 0.5								52.5I	5
0.3 - 0.5								52.5I	5
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_CMRR	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
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