Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0799** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	13/05/93	**Elevation:**	300 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6343830 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	542740 Datum: AGD84	**Drainage:**	Imperfectly drained

Geology

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

Land Form

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

Surface Soil Condition Recently cultivated

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: Dg3.43
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap 0 - 0.2 m Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose consistence;
Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Wavy change to -

A2e 0.2 - 0.25 m Light grey (10YR7/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose consistence;
Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -

B21 0.25 - 0.6 m Light grey (2.5Y7/2-Moist); , 10YR42, 10-20% , 15-30mm, Distinct; Sandy light medium clay; Strong
grade of structure, 100-200 mm, Columnar; Rough-ped fabric; Moderately moist; Firm consistence; Field
pH 5 (Raupach); Common, very fine (0-1mm) roots; Gradual change to -

B22k 0.6 - 1.15 m Light grey (2.5Y7/2-Moist); Mottles, 10YR68, 2-10% , 5-15mm, Distinct; Medium clay; Moderate grade
of structure, Polyhedral; Moderately moist; Very firm consistence; Common (10 - 20 %), Calcareous,
Very coarse (20 - 60 mm), Soft segregations; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm),
Concretions; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

B21 Parting to 5, PO. Mottles due to roots

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%

0 - 0.2	5.1B 6H	16B	1.46H	0.43	0.1	0.44	0.05J		2.43D	
0 - 0.1	4.7B 5.5H 5.3B 6.2H 5B	6B 25B								
0 - 0.1	4.7B 5.5H 5.3B 6.2H 5B	6B 25B								
0 - 0.2	5.1B 6H	16B	1.46H	0.43	0.1	0.44	0.05J		2.43D	
0 - 0.1	4.7B 5.5H 5.3B 6.2H 5B	6B 25B								
0 - 0.1	4.7B 5.5H 5.3B 6.2H 5B	6B 25B								
0 - 0.1	4.7B 5.5H 5.3B 6.2H 5B	6B 25B								
0.1 - 0.2	4.8B									
0.2 - 0.25	4.6B 5.6H	14B	0.29H	0.41	0.02	0.62	0.12J		1.34D	
0.2 - 0.25	4.6B 5.6H	14B	0.29H	0.41	0.02	0.62	0.12J		1.34D	
0.25 - 0.6	4.4B 5.3H	69B	0.68H	4.82	0.2	3.52	0.06J		9.22D	
0.25 - 0.3	4.2B 5H	60B	0.45H	2.59	0.1	1.19	0.39J		4.33D	
0.25 - 0.6	4.4B 5.3H	69B	0.68H	4.82	0.2	3.52	0.06J		9.22D	
0.25 - 0.3	4.2B 5H	60B	0.45H	2.59	0.1	1.19	0.39J		4.33D	
0.3 - 0.5	4.6B 5.2H	120B	0.66H	5.75	0.21	2.62	0.17J		9.24D	
0.3 - 0.5	4.6B 5.2H	120B	0.66H	5.75	0.21	2.62	0.17J		9.24D	
0.4 - 0.5	4.5B									
0.5 - 0.6	7.6B 8.4H	120B	1.15E	5.41	0.53	5.11		13B	12.2D	39.31
0.5 - 0.6	7.6B 8.4H	120B	1.15E	5.41	0.53	5.11		13B	12.2D	39.31

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0.5 - 0.6	7.6B	120B	1.15E	5.41	0.53	5.11		13B	12.2D	39.31
	8.4H									
0.6 - 0.9	8.6B	153B	0.97E	6.69	0.62	6.61		13B	14.89D	50.85
	9.3H									
0.6 - 0.9	8.6B	153B	0.97E	6.69	0.62	6.61		13B	14.89D	50.85
	9.3H									
0.6 - 0.9	8.6B	153B	0.97E	6.69	0.62	6.61		13B	14.89D	50.85
	9.3H									
0.9 - 1.15	8.1B	132B	0.91E	6.33	0.69	7.1		14B	15.03D	50.71
	8.9H									
0.9 - 1.15	8.1B	132B	0.91E	6.33	0.69	7.1		14B	15.03D	50.71
	8.9H									
0.9 - 1.15	8.1B	132B	0.91E	6.33	0.69	7.1		14B	15.03D	50.71
	8.9H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.2		0.97D		64B	0.046E						4
4.3											
0 - 0.1		1.54D		140B	0.085E						
		2.24D		62B	0.087E						
0 - 0.1		1.54D		140B	0.085E						
		2.24D		62B	0.087E						
0 - 0.2		0.97D		64B	0.046E						4
4.3											
0 - 0.1		1.54D		140B	0.085E						
		2.24D		62B	0.087E						
0 - 0.1		1.54D		140B	0.085E						
		2.24D		62B	0.087E						
0 - 0.1		1.54D		140B	0.085E						
		2.24D		62B	0.087E						
0.1 - 0.2											
0.2 - 0.25		0.28D		18B	0.012E						2.6
2.7											
0.2 - 0.25		0.28D		18B	0.012E						2.6
2.7											
0.25 - 0.6		0.24D		22B	0.018E						7.8
27.9											
0.25 - 0.3									77I		7.5
15.5											
0.25 - 0.6		0.24D		22B	0.018E						7.8
27.9											
0.25 - 0.3									77I		7.5
15.5											
0.3 - 0.5									65.5I		7.5
27											
0.3 - 0.5									65.5I		7.5
27											
0.4 - 0.5											
0.5 - 0.6	<2C								61.5I		8
30.5											
0.5 - 0.6	<2C								61.5I		8
30.5											
0.5 - 0.6	<2C								61.5I		8
30.5											
0.6 - 0.9	<2C	0.09D		22B	0.01E						8.6
33.8											
0.6 - 0.9	<2C	0.09D		22B	0.01E						8.6
33.8											
0.6 - 0.9	<2C	0.09D		22B	0.01E						8.6
33.8											
0.9 - 1.15	<2C	0.08D		23B	0.008E						9.1
36											
0.9 - 1.15	<2C	0.08D		23B	0.008E						9.1

36 0.9 - 1.15 36	<2C	0.08D	23B	0.008E	9.1

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts

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15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - 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)