Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0797** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	13/05/93	**Elevation:**	317 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6342230 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	546320 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:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Flat	**Relief:**	30 metres
Elem. Type:	Valley flat	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition

Recently cultivated, Hardsetting

Erosion:

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Mesotrophic Mottled-Subnatric Yellow Sodosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy3.12
Great Soil Group: N/A

Site

Cultivation. Rainfed

Vegetation:

Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

Ap 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy clay loam; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -

B21 0.1 - 0.6 m Brownish yellow (10YR6/8-Moist); Mottles, 10R46, 10-20% , 15-30mm, Distinct; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear change to -

B22 0.6 - 1.2 m Brownish yellow (10YR6/6-Moist); Mottles, 2.5Y73, 10-20% , 15-30mm, Distinct; Light clay; Strong grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, , coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Ap Too disturbed to determine structure

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 - 0.1	5.7B 6.5H 5.6B 5.9H 5.3B	8B 56B	5.23H	1.58	0.44	0.16	0.05J	7.41D
0 - 0.1	5.7B 6.5H 5.6B 5.9H 5.3B	8B 56B	5.23H	1.58	0.44	0.16	0.05J	7.41D
0 - 0.1	5.7B 6.5H 5.6B 5.9H 5.3B	8B 56B	5.23H	1.58	0.44	0.16	0.05J	7.41D
0 - 0.1	5.7B 6.5H 5.6B 5.9H 5.3B	8B 56B	5.23H	1.58	0.44	0.16	0.05J	7.41D
0 - 0.1	5.7B 6.5H 5.6B 5.9H 5.3B	8B 56B	5.23H	1.58	0.44	0.16	0.05J	7.41D
0.1 - 0.35	6.4B 6.8H	39B	2.72A	3.71	0.32	0.77		7.52D
0.1 - 0.3	6.1B 6.1H	290B	2.22H	3.34	0.29	0.73	<0.02J	6.58D
0.1 - 0.35	6.4B 6.8H	39B	2.72A	3.71	0.32	0.77		7.52D
0.1 - 0.3	6.1B 6.1H	290B	2.22H	3.34	0.29	0.73	<0.02J	6.58D
0.15 - 0.25	6.3B							
0.3 - 0.6	6.2B 6.2H	480B	1.75H	5.15	0.27	1.16	0.02J	8.33D
0.3 - 0.6	6.2B 6.2H	480B	1.75H	5.15	0.27	1.16	0.02J	8.33D
0.35 - 0.6	6.3B 6.4H	117B	1.55H	5.01	0.22	0.78	<0.02J	7.56D
0.35 - 0.6	6.3B 6.4H	117B	1.55H	5.01	0.22	0.78	<0.02J	7.56D
0.4 - 0.5	6.2B							
0.6 - 0.9	6.4B 6.6H	130B	1.11A	5.65	0.32	1.04		8.12D
0.6 - 0.9	6.4B 6.6H	130B	1.11A	5.65	0.32	1.04		8.12D
0.9 - 1.2	6.6B 6.8H	128B	1.05A	6.34	0.37	1.56		9.32D
0.9 - 1.2	6.6B 6.8H	128B	1.05A	6.34	0.37	1.56		9.32D

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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.45D		150B	0.117E						9.7	14.8
		1.41D		120B	0.1E							
0 - 0.1		1.45D		150B	0.117E						9.7	14.8
		1.41D		120B	0.1E							
0 - 0.1		1.45D		150B	0.117E						9.7	14.8
		1.41D		120B	0.1E							
0 - 0.1		1.45D		150B	0.117E						9.7	14.8
		1.41D		120B	0.1E							
0 - 0.1		1.45D		150B	0.117E						9.7	14.8
		1.41D		120B	0.1E							
0.1 - 0.35		0.25D		46B	0.029E						12.1	51.4
0.1 - 0.3									55.5I		7	37.5
0.1 - 0.35		0.25D		46B	0.029E						12.1	51.4
0.1 - 0.3									55.5I		7	37.5
0.15 - 0.25												
0.3 - 0.6									48.5I		16	35.5
0.3 - 0.6									48.5I		16	35.5
0.35 - 0.6		0.17D		41B	0.018E						13.5	47.9
0.35 - 0.6		0.17D		41B	0.018E						13.5	47.9
0.4 - 0.5												
0.6 - 0.9		0.13D		34B	0.014E						12.9	51.7
0.6 - 0.9		0.13D		34B	0.014E						12.9	51.7
0.9 - 1.2		0.08D		29B	0.012E						9.7	61.3
0.9 - 1.2		0.08D		29B	0.012E						9.7	61.3

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method

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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)