Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1587** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	15/02/94	**Elevation:**	279 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6300620 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	584250 Datum: AGD84	**Drainage:**	Poorly 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:**	2 metres
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:
Hypocalcic Mottled-Mesonatric Brown Sodosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.43
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 - 0.15 m Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence;
Field pH 5.5 (Raupach); Abrupt, Smooth change to -

A2e 0.15 - 0.3 m Pale brown (10YR6/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence;
Field pH 6 (Raupach); Sharp change to -

B21 0.3 - 0.7 m Yellowish brown (10YR5/8-Moist); Mottles, 7.5YR56, 2-10% , 0-5mm, Faint; Sandy medium clay;
Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Soil
matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual change to -

B22 0.7 - 1.1 m Yellowish brown (10YR5/8-Moist); Mottles, 10YR61, 20-50% , 0-5mm, Distinct; Sandy medium clay;
Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Strong
consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual change to -

B3 1.1 - 1.4 m Light brownish grey (10YR6/2-Moist); Mottles, 10YR58, 10-20% , 0-5mm, Distinct; Light medium clay;
Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

B3 Water table level at 140cm

Observation Notes

Site Notes

Datatine Soil pit 2 - 10 metres from site KLC 1545

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5B 5.4H 5B 5.5H	110B 90B	0.6H	0.89	0.06	0.73	0.11J		2.28D	
0 - 0.1	5B 5.4H 5B 5.5H	110B 90B	0.6H	0.89	0.06	0.73	0.11J		2.28D	
0 - 0.1	5B 5.4H 5B 5.5H	110B 90B	0.6H	0.89	0.06	0.73	0.11J		2.28D	
0 - 0.1	5B 5.4H 5B 5.5H	110B 90B	0.6H	0.89	0.06	0.73	0.11J		2.28D	
0.1 - 0.15	4.7B 5.4H	40B	0.29H	0.55	0.04	0.42	0.13J		1.3D	
0.1 - 0.15	4.7B 5.4H	40B	0.29H	0.55	0.04	0.42	0.13J		1.3D	
0.15 - 0.3	5.4B 6H	26B	0.19H	0.53	0.02	0.25	0.02J		0.99D	
0.15 - 0.3	5.4B 6H	26B	0.19H	0.53	0.02	0.25	0.02J		0.99D	
0.3 - 0.5	7.2B 7.5H	260B	3A	8.6	0.22	2.9			14.72D	
0.3 - 0.5	7.2B 7.5H	260B	3A	8.6	0.22	2.9			14.72D	

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		0.43D 0.48D		83B 99B	0.025E 0.03E						2.9	2.5
0 - 0.1		0.43D 0.48D		83B 99B	0.025E 0.03E						2.9	2.5
0 - 0.1		0.43D 0.48D		83B 99B	0.025E 0.03E						2.9	2.5
0 - 0.1		0.43D 0.48D		83B 99B	0.025E 0.03E						2.9	2.5
0.1 - 0.15		0.28D		73B	0.016E						2.5	2.1
0.1 - 0.15		0.28D		73B	0.016E						2.5	2.1
0.15 - 0.3		0.1D		40B	0.007E						2.8	1.8
0.15 - 0.3		0.1D		40B	0.007E						2.8	1.8
0.3 - 0.5		0.19D		29B	0.013E						9.5	39.4
0.3 - 0.5		0.19D		29B	0.013E						9.5	39.4

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available

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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
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_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)