Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1576** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	10/02/94	**Elevation:**	354 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6278440 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	549570 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:	Crest	**Relief:**	35 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Haplic Eutrophic Red Dermosol
ASC Confidence: Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dr2.12
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Dolerite

Profile

A1 0 - 0.1 m Dark reddish brown (5YR3/3-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Very firm consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -

B2t 0.1 - 0.5 m Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Dry; Very strong consistence; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Wavy change to -

B3 0.5 - 0.8 m Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Clay loam, coarse sandy; Weak grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy change to -

C 0.8 - 1.2 m , 0-0% ; Massive grade of structure; Dry; Abrupt, Wavy change to -

R 1.2 - 1.3 m Rock

Morphological Notes

B2t	Parting to M,SB,5
B3	Weathered gabbro about 50%
C	Weathered gabbro (2mm)
R	Gabbro?

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	5.4B 6.1H 5.3B 6.1H 5.4B	8B 7B	10H	2.9	0.53	0.35	0.02J	13.78D
0 - 0.1	5.4B 6.1H 5.3B 6.1H 5.4B	8B 7B	10H	2.9	0.53	0.35	0.02J	13.78D
0 - 0.1	5.4B 6.1H 5.3B 6.1H 5.4B	8B 7B	10H	2.9	0.53	0.35	0.02J	13.78D
0 - 0.1	5.4B 6.1H 5.3B 6.1H 5.4B	8B 7B	10H	2.9	0.53	0.35	0.02J	13.78D
0 - 0.1	5.4B 6.1H 5.3B 6.1H 5.4B	8B 7B	10H	2.9	0.53	0.35	0.02J	13.78D
0.1 - 0.3	5.8B 6.7H	5B	15A	6	0.36	0.43		21.79D
0.1 - 0.3	5.8B 6.7H	5B	15A	6	0.36	0.43		21.79D
0.1 - 0.3	5.8B 6.7H	5B	15A	6	0.36	0.43		21.79D
0.15 - 0.25	5.8B							
0.3 - 0.5	6.5B 7.6H	4B	25A	12	0.57	0.48		38.05D
0.3 - 0.5	6.5B 7.6H	4B	25A	12	0.57	0.48		38.05D
0.3 - 0.5	6.5B 7.6H	4B	25A	12	0.57	0.48		38.05D
0.4 - 0.5	6.4B							
0.5 - 0.8	6.5B 7.6H	3B	19A	9.6	0.34	0.38		29.32D
0.5 - 0.8	6.5B 7.6H	3B	19A	9.6	0.34	0.38		29.32D
0.5 - 0.8	6.5B 7.6H	3B	19A	9.6	0.34	0.38		29.32D
0.8 - 1.2	6.4B 7.5H	3B	20A	10	0.25	0.59		30.84D
0.8 - 1.2	6.4B 7.5H	3B	20A	10	0.25	0.59		30.84D

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Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	GV	Particle Size Analysis CS	FS %	Silt	Clay
0 - 0.1		2.06D		290B	0.176E						20.1	17.2
		1.9D		280B	0.169E							
0 - 0.1		2.06D		290B	0.176E						20.1	17.2
		1.9D		280B	0.169E							
0 - 0.1		2.06D		290B	0.176E						20.1	17.2
		1.9D		280B	0.169E							
0 - 0.1		2.06D		290B	0.176E						20.1	17.2
		1.9D		280B	0.169E							
0 - 0.1		2.06D		290B	0.176E						20.1	17.2
		1.9D		280B	0.169E							
0.1 - 0.3		0.67D		130B	0.08E						12.9	32.5
0.1 - 0.3		0.67D		130B	0.08E						12.9	32.5
0.1 - 0.3		0.67D		130B	0.08E						12.9	32.5
0.15 - 0.25												
0.3 - 0.5		0.52D		79B	0.062E						10.7	55.5
0.3 - 0.5		0.52D		79B	0.062E						10.7	55.5
0.3 - 0.5		0.52D		79B	0.062E						10.7	55.5
0.4 - 0.5												
0.5 - 0.8		0.21D		110B	0.027E						7.4	25.7
0.5 - 0.8		0.21D		110B	0.027E						7.4	25.7
0.5 - 0.8		0.21D		110B	0.027E						7.4	25.7
0.8 - 1.2		0.09D		140B	0.013E						7.4	17.9
0.8 - 1.2		0.09D		140B	0.013E						7.4	17.9

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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)