Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0151** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	26/03/92	**Elevation:**	300 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6252840 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	487680 Datum: AGD84	**Drainage:**	Moderately well 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 rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Mid-slope	**Relief:**	25 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	8 %	**Aspect:**	270 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Dermosol

Mapping Unit: N/A
Principal Profile Form: Gn4.11
Great Soil Group: N/A

ASC Confidence:
All necessary analytical data are available.

Site Vegetation:

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

Profile

A11 0 - 0.02 m Dark brown (7.5YR3/3-Moist); , 0-0% ; Sand; Moderate grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Water repellent; Field pH 6.5 (Raupach); Abundant, fine (1-2mm) roots; Sharp, Smooth change to -

A12 0.02 - 0.2 m Dark reddish brown (2.5YR2/4-Moist); , 0-0% ; Fine sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Irregular change to -

B2 0.2 - 0.5 m Dark red (10R3/6-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to -

C 0.5 - 1 m , 0-0% ; Massive grade of structure; Dry; Few, medium (2-5mm) roots;

Morphological Notes

C Weathered rock (gneiss) and dolerite in pit

Observation Notes

Site Notes

Hardsetting layer below top 2cm

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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	5.1B	6B								

	6.1H										
0 - 0.1	5.1B	6B									
	6.1H										
0.02 - 0.2	5.6B	31B	8.65H	3.27	2.21	0.45	0.02J			14.58D	
	6.2H										
0.02 - 0.2	5.6B	31B	8.65H	3.27	2.21	0.45	0.02J			14.58D	
	6.2H										
0.2 - 0.5	5.5B	11B	11.32H	5.35	1	0.69	0.03J			18.36D	
	6.4H										
0.2 - 0.5	5.5B	11B	11.32H	5.35	1	0.69	0.03J			18.36D	
	6.4H										
0.2 - 0.5	5.5B	11B	11.32H	5.35	1	0.69	0.03J			18.36D	
	6.4H										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		3.49D		230B	0.224E						
0 - 0.1		3.49D		230B	0.224E						
0.02 - 0.2		1.31D		160B	0.091E						17.1
22											
0.02 - 0.2		1.31D		160B	0.091E						17.1
22											
0.2 - 0.5		0.97D		83B	0.053E						13.6
38.9											
0.2 - 0.5		0.97D		83B	0.053E						13.6
38.9											
0.2 - 0.5		0.97D		83B	0.053E						13.6
38.9											

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
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
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
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)

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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)