

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0788 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Jaki Hogstrom	Locality:	
Date Desc.:	12/05/93	Elevation:	278 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6306590 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	479950 Datum: AGD84	Drainage:	Rapidly drained

Geology

ExposureType:	Auger boring	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:	18 metres
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	3 %	Aspect:	315 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dy3.22
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

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

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, subrounded, ; 10-20%, , subangular, Granite

Profile

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Very weak
		consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Strongly water repellent,
		"Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
A2	0.1 - 0.25 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Firm
		consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach);
		Common, very fine (0-1mm) roots; Gradual change to -
A3	0.25 - 0.3 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Dry; Very firm
		consistence; 20-50%, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse
		fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -
B2t	0.3 - 0.5 m	Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR46, 10-20% , 0-5mm, Distinct; Light medium clay;
		Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; 20-50%, fine gravelly, 2-
		6mm, angular, Quartz, coarse fragments; Field pH 7 (Raupach);

Morphological Notes

A3	Horizon ends just above 30sm - i.e. is a shallow
B2t	Some rock fragments

Observation Notes

Site Notes

Seems to be multiple dykes of doleritic materials (gabbro, basalt) in area

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	5B								
0.15 - 0.25	5.2B								
0.3 - 0.5	5.7B	4B	1.18H	2.48	0.05	0.12	0.03J	3.83D	
	6.4H								
0.3 - 0.5	5.7B	4B	1.18H	2.48	0.05	0.12	0.03J	3.83D	
	6.4H								
0.3 - 0.5	5.7B	4B	1.18H	2.48	0.05	0.12	0.03J	3.83D	
	6.4H								
0.4 - 0.5	5.6B								

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1								
0.15 - 0.25								
0.3 - 0.5								90.5I 4
5.5								
0.3 - 0.5								90.5I 4
5.5								
0.3 - 0.5								90.5I 4
5.5								
0.4 - 0.5								

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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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
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
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded