

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0140 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	03/12/91	Elevation:	341 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6330560 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	499170 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:	Upper-slope	Relief:	60 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	45 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Ferric Dystrophic Yellow Kurosol		Principal Profile Form:	Dg2.81
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, rounded, Ironstone; No surface coarse fragments

Profile

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; 20-Concretions; Water
A2e	0.1 - 0.25 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; 20-50%, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.25 - 0.7 m	Very pale brown (10YR7/4-Moist); Mottles, 7.5YR78, 20-50% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Dry; 2-10%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear change to -
C	0.7 - 0.97 m	Pale yellow (2.5Y8/4-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Light clay; Massive grade of structure; Dry; 2-10%, Quartz, coarse fragments; Field pH 6 (Raupach);

Morphological Notes

A1	F,M,C GC SOME F A QZ
A2e	F IS & QZ KS<1MM
B2	F QZ CONTAINS C SAND
C	F,C A QZ MOTTLED ZONE

Observation Notes

Site Notes

30m downslope of breakaway

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.1B	8B	4.19H	1	0.21	0.15	0.09J		5.55D	
	6H									
0 - 0.1	5.1B	8B	4.19H	1	0.21	0.15	0.09J		5.55D	
	6H									
0.1 - 0.25	4.4B	3B	0.35H	0.24	0.08	0.05	0.57J		0.72D	
	5.3H									
0.1 - 0.25	4.4B	3B	0.35H	0.24	0.08	0.05	0.57J		0.72D	
	5.3H									
0.25 - 0.7	4.3B	4B	0.26H	0.88	0.07	0.06	0.66J		1.27D	
	5.2H									
0.25 - 0.7	4.3B	4B	0.26H	0.88	0.07	0.06	0.66J		1.27D	
	5.2H									
0.7 - 0.97	4.7B	5B	0.08H	2.15	0.06	0.21	0.07J		2.5D	
	5.4H									
0.7 - 0.97	4.7B	5B	0.08H	2.15	0.06	0.21	0.07J		2.5D	
	5.4H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1		2.44D		240B	0.141E				4.8
8.6									
0 - 0.1		2.44D		240B	0.141E				4.8
8.6									
0.1 - 0.25		0.53D		51B	0.029E				3.9
20									
0.1 - 0.25		0.53D		51B	0.029E				3.9
20									
0.25 - 0.7		0.27D		24B	0.016E				3.9
51.5									
0.25 - 0.7		0.27D		24B	0.016E				3.9
51.5									
0.7 - 0.97		0.14D		16B	0.009E				5
61.8									
0.7 - 0.97		0.14D		16B	0.009E				5
61.8									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	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
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
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)

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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)