

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0137 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	03/12/91	Elevation:	339 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6326960 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	497490 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 low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Upper-slope	Relief:	40 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	6 %	Aspect:	45 degrees

Surface Soil Condition Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Mesotrophic Yellow Chromosol		Principal Profile Form:	Dy5.81
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 No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.15 m	Black (10YR2/1-Moist); , 0-0% ; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 2-10%, Quartz, coarse fragments; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -
A21e	0.15 - 0.45 m	Light grey (10YR7/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 10-20%, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear, Wavy change to -
A22e	0.45 - 0.58 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 20-50%, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21	0.58 - 0.66 m	Yellow (10YR7/8-Moist); , 0-0% ; Coarse sandy clay loam; Massive grade of structure; Dry; Field pH 6 (Raupach); Abrupt, Wavy change to -
B22t	0.66 - 1 m	Brownish yellow (10YR6/8-Moist); Mottles, 2.5Y46, 20-50% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Dry; 2-10%, Quartz, coarse fragments; Field pH 5 (Raupach);

Morphological Notes

A1	F S QZ KS<1MM SAMPLED
A21e	F S QZ & F M R GC SAMPLED
A22e	F S QZ & M C GC SAMPLED
B21	KS>1MM SAMPLED
B22t	MS&KS F QZ SAMPLED

Observation Notes

Site Notes

Soil pit in Wangaling Gully catchment.

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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 - 0.15	5.2B 6H	8B	4.2H	0.47	0.09	0.15	0.15J		4.91D	
0 - 0.15	5.2B 6H	8B	4.2H	0.47	0.09	0.15	0.15J		4.91D	
0.15 - 0.45	4.5B 5.6H	1B	0.33H	0.1	0.02	0.02	0.23J		0.47D	
0.15 - 0.45	4.5B 5.6H	1B	0.33H	0.1	0.02	0.02	0.23J		0.47D	
0.45 - 0.58	4.6B 5.5H	2B	0.43H	0.23	0.03	0.03	0.19J		0.72D	
0.45 - 0.58	4.6B 5.5H	2B	0.43H	0.23	0.03	0.03	0.19J		0.72D	
0.58 - 0.66	4.8B 5.8H	2B	0.97H	1.01	0.04	0.1	0.06J		2.12D	
0.58 - 0.66	4.8B 5.8H	2B	0.97H	1.01	0.04	0.1	0.06J		2.12D	
0.66 - 1	4.6B 5.5H	4B	0.28H	2.69	0.08	0.19	0.07J		3.24D	
0.66 - 1	4.6B 5.5H	4B	0.28H	2.69	0.08	0.19	0.07J		3.24D	

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 - 0.15		1.71D		160B	0.104E				4.4
4.5									
0 - 0.15		1.71D		160B	0.104E				4.4
4.5									
0.15 - 0.45		0.21D		28B	0.013E				4
5.3									
0.15 - 0.45		0.21D		28B	0.013E				4
5.3									
0.45 - 0.58		0.17D		27B	0.011E				4.1
7.5									
0.45 - 0.58		0.17D		27B	0.011E				4.1
7.5									
0.58 - 0.66		0.18D		31B	0.016E				3.8
29.8									
0.58 - 0.66		0.18D		31B	0.016E				3.8
29.8									
0.66 - 1		0.08D		24B	0.007E				6.5
42.2									
0.66 - 1		0.08D		24B	0.007E				6.5
42.2									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRe	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CAsalts	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

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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)
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)