Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1247** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 01/09/93
Map Ref.:
Northing/Long.: 6344050 AMG zone: 50
Easting/Lat.: 560890 Datum: AGD84
Locality:
Elevation: 355 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Pattern Type: Low hills
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 4 %
Relief: 40 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition

Recently cultivated

Erosion:

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Uc4.21
Great Soil Group: N/A

Site

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

Vegetation:

Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

A1p 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; Field pH 7.5 (Raupach); Abrupt, Smooth change to -

A21 0.1 - 0.3 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Gradual change to -

A22 0.3 - 0.5 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6 (Raupach); Clear change to -

B1 0.5 - 0.6 m Reddish yellow (7.5YR6/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Clear change to -

B2t 0.6 - 0.9 m Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Sandy light clay; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach);

Morphological Notes

A1p Limed surface?
B2t Water entered at base of this layer

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.8B									
0.15 - 0.25	4.3B									
0.4 - 0.5	5.4B									
0.6 - 0.8	5.6B 6.3H	5B	1.5H	1.45	0.11	0.21	0.02J		3.27D	
0.6 - 0.8	5.6B 6.3H	5B	1.5H	1.45	0.11	0.21	0.02J		3.27D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size CS	FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1												
0.15 - 0.25												
0.4 - 0.5												
0.6 - 0.8									64.5I		4.5	31
0.6 - 0.8									64.5I		4.5	31

Laboratory Analyses Completed for this profile

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
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