Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0298** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 01/07/92
Map Ref.:
Northing/Long.: 6269920 AMG zone: 50
Easting/Lat.: 504940 Datum: AGD84
Locality:
Elevation: 264 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly 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: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Crest
Elem. Type: Summit surface
Slope: 0 %
Relief: 20 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Hardsetting

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: Dy3.13
Great Soil Group: N/A

Site

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

Vegetation:

Surface Coarse

0-2%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

A1 0 - 0.08 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Moist;
Very weak consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -

B21t 0.08 - 0.2 m Reddish yellow (7.5YR6/6-Moist); , 0-0% ; Sandy light clay; Weak grade of structure; Rough-ped fabric;
Moist; Weak consistence; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Abrupt change to -

B22t 0.2 - 0.3 m Very pale brown (10YR7/4-Moist); Mottles, 2.5Y72, 20-50% , 5-15mm, Faint; Light clay; Moderate grade
of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 7 (Raupach);
Common, very fine (0-1mm) roots; Gradual change to -

B23t 0.3 - 0.6 m Pale yellow (2.5Y7/4-Moist); Mottles, 10YR68, 20-50% , 0-5mm, Distinct; , 5YR58, 2-10% , 0-5mm,
Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm
consistence; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

C 0.6 - 0.8 m Light grey (2.5Y7/2-Moist); Mottles, 2.5YR34, 2-10% , 0-5mm, Prominent; Mottles, 10YR68, 2-10% , 0-
5mm, Prominent; Light clay; Strong grade of structure; Smooth-ped fabric; Dry; Strong consistence;
Field pH 8 (Raupach); Few, fine (1-2mm) roots; Gradual change to -

C 0.8 - 1.05 m Light grey (2.5Y7/2-Moist); Mottles, 2.5Y36, 10-20% , 5-15mm, Prominent; Light clay; Strong grade of
structure; Smooth-ped fabric; Dry; Strong consistence; Field pH 8.5 (Raupach);

Morphological Notes

B21t Sampled for ESP - very slight dispersion
C Water entered at 80cm via old root channel - pallid zone

C Kaolinitic pallid zone

Observation Notes

Site Notes

Norrish Rd Landcare site - areas of very gravelly soil also occur on crests (with Jarrah). Surface cracks nearby suggest small area of
cracking soil - not a common soil

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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 - 0.11	5.3B									
0.08 - 0.2	5.8B 6.9H	5B	3.94A	3.64	0.14	0.44			8.16D	
0.08 - 0.2	5.8B 6.9H	5B	3.94A	3.64	0.14	0.44			8.16D	
0.11 - 0.21	5.75B									
0.41 - 0.51	6.6B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.08 - 0.2 20									72I		8
0.08 - 0.2 20									72I		8
0.11 - 0.21											
0.41 - 0.51											

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using Sum of Cations and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
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