Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1947** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 25/08/94
Map Ref.:
Northing/Long.: 6265260 AMG zone: 50
Easting/Lat.: 487210 Datum: AGD84
Locality:
Elevation: 240 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 rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 4 %
Pattern Type: Rises
Relief: 20 metres
Slope Category: No Data
Aspect: 225 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Ferric Mesotrophic Brown Chromosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dy2.22
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage
Vegetation:
Surface Coarse 10-20%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

A1 0 - 0.12 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Abrupt change to -

A21 0.12 - 0.3 m Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6.5 (Raupach); Gradual change to -

A22 0.3 - 0.55 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 7 (Raupach); Clear change to -

B2 0.55 - 0.8 m Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Moderately moist; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 7.5 (Raupach);

Morphological Notes

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	5.4B											
0.15 - 0.25	5.8B											
0.4 - 0.5	5.8B											
0.55 - 0.75	6.1B 6.8H	3B	1.6A	2.1	0.11	0.2				4.01D		

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												
0.55 - 0.75									64.5I		5.5	
30												

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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded