Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0404** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 17/08/92
Map Ref.:
Northing/Long.: 6271910 AMG zone: 50
Easting/Lat.: 567930 Datum: AGD84
Locality:
Elevation: 279 metres
Rainfall: No Data
Runoff: No Data
Drainage: 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: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: No Data
Elem. Type: Duneslope
Slope: 2 %
Relief: 10 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Poached, Hardsetting

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

Soil Classification

Australian Soil Classification:
Hypocalcic Mesonatric Yellow Sodosol
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 2-10%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

Ap 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -

B21p 0.1 - 0.3 m Yellow (10YR7/5-Moist); Mechanical, 10YR32, 20-50% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 8.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

B22 0.3 - 0.4 m Pale yellow (2.5Y7/4-Moist); Mottles, 7.5YR68, 2-10% , 5-15mm, Distinct; Mechanical, 10YR32, 10-20% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -

B23 0.4 - 0.6 m Light brownish grey (2.5Y6/3-Moist); , 10YR68, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Strong consistence; Field pH 9.5 (Raupach);

Morphological Notes

B21p Sampled ESP

Observation Notes

Site Notes

Langaweira Road - east of small lake

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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	4.87B								
0.1 - 0.3	6.8B 7.4H	60B	3.22A	3.95	0.3	1.56		9.03D	
0.1 - 0.3	6.8B 7.4H	60B	3.22A	3.95	0.3	1.56		9.03D	
0.16 - 0.26	6.42B								
0.41 - 0.51	7.19B								

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.1 - 0.3											
0.1 - 0.3											
0.16 - 0.26											
0.41 - 0.51											

Laboratory Analyses Completed for this profile

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)