Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0037** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 10/10/91
Map Ref.:
Northing/Long.: 6257320 AMG zone: 50
Easting/Lat.: 582190 Datum: AGD84
Locality:
Elevation: 311 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: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Magnesic Mottled-Hypernatric Brown Sodosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dy3.41
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

A1 0 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Dry; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -

A2e 0.1 - 0.15 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to -

B21 0.15 - 0.5 m Brown (10YR5/3-Moist); Mottles, 10R36, 10-20% , 5-15mm, Prominent; Medium heavy clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

B22 0.5 - 0.72 m Light brownish grey (10YR6/2-Moist); Mottles, 10R48, 10-20% , 5-15mm, Prominent; Medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Field pH 7 (Raupach);

BC 0.72 - 0.85 m Light grey (10YR7/2-Moist); Mottles, 2.5YR66, 20-50% , 30-mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 7 (Raupach);

C 0.85 - 1.1 m Light grey (10YR7/2-Moist); Mottles, 5YR76, 20-50% , 30-mm, Faint; Light clay; Moderate grade of structure; Smooth-ped fabric; Dry; Field pH 6 (Raupach);

Morphological Notes

B21 SAMPLED

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							%
0.15 - 0.5	4.4B 5.5H	21B	0.19H	2.91	<0.02	1.75	0.36J		4.86D	
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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			%	
0.15 - 0.5									44.5I		4
51.5											
0.15 - 0.5									44.5I		4
51.5											

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