Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0375** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 04/08/92
Map Ref.:
Northing/Long.: 6247260 AMG zone: 50
Easting/Lat.: 522330 Datum: AGD84
Locality:
Elevation: 373 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: Mid-slope
Elem. Type: Hillslope
Slope: 3 %
Relief: 50 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Mesonatric Red Sodosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dy5.42
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse No surface coarse fragments; 0-2%, , subangular, Granite

Profile

A1 0 - 0.07 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; Loose consistence; 10-20%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -

A21e 0.07 - 0.15 m Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Granite, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, Granite, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to -

A22e 0.15 - 0.3 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 20-50%, coarse gravelly, 20-60mm, subangular, Granite, coarse fragments; 10-20%, cobbly, 60-200mm, subangular, Granite, coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, Granite, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -

B1 0.3 - 0.4 m Yellowish red (5YR5/6-Moist); Mottles, 5YR66, 20-50% , 5-15mm, Faint; Coarse sandy clay loam; Weak grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to -

B21t 0.4 - 0.6 m Reddish yellow (5YR6/8-Moist); Mottles, 7.5YR68, 10-20% , 0-5mm, Faint; Light clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual change to -

B22 0.6 - 0.7 m Yellow (10YR7/8-Moist); Mottles, 10R46, 20-50% , 5-15mm, Distinct; Light clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -

B3 0.7 - 0.8 m White (2.5Y8/2-Moist); Mottles, 2.5Y66, 20-50% , 0-5mm, Distinct; Mottles, 2.5Y46, 20-50% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; Field pH 6.5 (Raupach); Abrupt change to -

C 0.8 - 1 m Light grey (5Y7/2-Moist); Mottles, 10R32, 20-50% , 5-15mm, Prominent; Mottles, 10YR76, 10-20% , 0-5mm, Distinct; Sandy light clay; Massive grade of structure; Dry; Field pH 6.5 (Raupach);

Morphological Notes

B21t ESP
C Weathered granite

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.11	5.05B									
0.16 - 0.26	4.9B									
0.4 - 0.6	5.4B 6.3H	3B	2.42H	2.72	0.26	0.21	<0.02J		5.61D	
0.4 - 0.6	5.4B 6.3H	3B	2.42H	2.72	0.26	0.21	<0.02J		5.61D	
0.41 - 0.51	5.37B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.16 - 0.26											
0.4 - 0.6											
0.4 - 0.6											
0.41 - 0.51											

Laboratory Analyses Completed for this profile

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)