Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0465** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 15/09/92
Map Ref.:
Northing/Long.: 6248900 AMG zone: 50
Easting/Lat.: 578820 Datum: AGD84
Locality:
Elevation: 289 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: Undulating rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 3 %
Pattern Type: Rises
Relief: 30 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition Poached, 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: Dy2.13
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage
Vegetation:
Surface Coarse No surface coarse fragments; 2-10%, , subangular, Granite

Profile

A1 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey coarse sand; Weak grade of structure, Polyhedral; Sandy (grains prominent) fabric; Wet; Very weak consistence; Field pH 6 (Raupach); Abundant, fine (1- 2mm) roots; Abrupt, Smooth change to -

B2t 0.1 - 0.25 m Dark grey (10YR4/1-Moist); , 0-0% ; Coarse sandy light medium clay; Strong grade of structure; Rough- ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Clear change to -

B3 0.25 - 0.35 m Grey (5Y5/1-Moist); Mottles, 2.5YR34, 2-10% , 5-15mm, Faint; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -

C 0.35 - 0.5 m Brown (10YR5/3-Moist); , 0-0% ; Coarse sandy light clay; Massive grade of structure; Dry; Very firm consistence; 50-90%, fine gravelly, 2-6mm, subangular, Granite, coarse fragments; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Martinup Road

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP

m		dS/m	Ca	Mg	K	Na	Acidity		Cmol (+)/kg		%
0 - 0.1	4.7B 5.7H	6B	3.06H	1.27	0.08	0.32	0.12J			4.73D	
0 - 0.1	4.7B 5.7H	6B	3.06H	1.27	0.08	0.32	0.12J			4.73D	
0 - 0.11	4.86B										
0.1 - 0.25	5.9B 7.1H	14B	7.87A	4.83	0.12	3				15.82D	
0.1 - 0.25	5.9B 7.1H	14B	7.87A	4.83	0.12	3				15.82D	
0.16 - 0.26	5.98B										
0.25 - 0.35	6.8B 7.9H	26B	8.74A	5.59	0.19	4.13				18.65D	
0.25 - 0.35	6.8B 7.9H	26B	8.74A	5.59	0.19	4.13				18.65D	
0.41 - 0.51	7.02B										

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 - 0.1											
0 - 0.1											
0 - 0.11											
0.1 - 0.25											
0.1 - 0.25											
0.16 - 0.26											
0.25 - 0.35											
0.25 - 0.35											
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
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
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)