Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0454** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 14/09/92
Map Ref.:
Northing/Long.: 6250680 AMG zone: 50
Easting/Lat.: 571160 Datum: AGD84
Locality:
Elevation: 321 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 low hills 30-90m 3-10%
Pattern Type: Low hills

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 35 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Hardsetting, 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: Dg2.13
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 - 0.15 m Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Moist; Very weak consistence; Field pH 6.5 (Raupach); Abundant, fine (1-2mm) roots; Abrupt change to -

B21 0.15 - 0.4 m Light grey (10YR7/2-Moist); Mottles, 7.5YR64, 10-20% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Clear change to -

B22 0.4 - 0.6 m Light grey (10YR7/1-Moist); Mottles, 5YR58, 2-10% , 15-30mm, Faint; Coarse sandy light clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 9 (Raupach); Common, fine (1-2mm) roots; Clear change to -

B31 0.6 - 0.7 m Light grey (10YR7/2-Moist); Mottles, 10YR64, 10-20% , 15-30mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 9.5 (Raupach); Clear change to -

B32 0.7 - 0.9 m Light grey (10YR7/2-Moist); Substrate influence, 10YR82, 10-20% , 15-30mm, Distinct; Light clay; Weak grade of structure; Smooth-ped fabric; Dry; Firm consistence; 20-50%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 9.5 (Raupach); Clear change to -

C 0.9 - 1 m Light grey (10YR7/1-Moist); Substrate influence, 5YR58, 20-50% , 15-30mm, Distinct; Clay loam, coarse sandy; Single grain grade of structure; Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 9.5 (Raupach);

Morphological Notes

B31	Cutans 10yr6/1 clay common distinct
B32	Weathered granite
C	Kaolinitic clay

Observation Notes

Site Notes

Gnowangerup-Broomehill Road. Granite rock outcrop 20m south of site

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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	5.49B									
0.15 - 0.4	6.7B 7.8H	10B	2.77A	2.67	0.23	0.88			6.55D	
0.15 - 0.4	6.7B 7.8H	10B	2.77A	2.67	0.23	0.88			6.55D	
0.16 - 0.26	6.41B									
0.41 - 0.51	6.99B									

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												
0.15 - 0.4												
0.15 - 0.4												
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)