

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0228 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 27/05/92	Elevation: 282 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6293830 AMG zone: 50	Runoff: No Data
Easting/Lat.: 529150 Datum: AGD84	Drainage: Moderately well drained

Geology

ExposureType: Existing vertical exposure	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Upper-slope	Relief: 65 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 5 %	Aspect: 90 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dr4.23
	Great Soil Group: N/A

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Granite

Profile

A1 Loose	0 - 0.05 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Loam; Single grain grade of structure; Dry; consistence; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt change to -
A2 Polyhedral;	0.05 - 0.1 m	Reddish brown (5YR4/3-Moist); , 0-0% ; Clay loam; Strong grade of structure, 5-10 mm, Smooth-ped fabric; Dry; Firm consistence; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Clear change to -
B2 Polyhedral; Smooth-	0.1 - 0.4 m	Red (2.5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm, ped fabric; Dry; Very firm consistence; Field pH 8 (Raupach); Common, fine (1-2mm) roots; Clear change to -
B3 clay; Moderate Calcareous, Fine Few, fine (1-	0.4 - 0.6 m	Red (2.5YR4/6-Moist); Substrate influence, 10YR81, 20-50% , 30-mm, Distinct; Medium grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Many (20 - 50 %), (0 - 2 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); 2mm) roots; Clear change to -
C Light clay; Massive segregations; Field	0.6 - m	Weak red (2.5YR4/2-Moist); Substrate influence, 10YR81, 20-50% , 30-mm, Distinct; grade of structure; Dry; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft pH 9.5 (Raupach);

Morphological Notes

A2	Sampled % clay
B2	Sampled % clay
B3	Many weathered granitic cobbles
C	Kaolinite and calcium clay - subplastic

Observation Notes

Site Notes

Samples taken from L2 & L3 for % clay to determine whether there is a clear textural change

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.05 - 0.1	6.5B 7.4H	6B								
0.05 - 0.1	6.5B 7.4H	6B								
0.1 - 0.4	6.9B 8.1H	8B	15.52E	10.46	0.54	1.11		30B	27.63D	3.70
0.1 - 0.4	6.9B 8.1H	8B	15.52E	10.46	0.54	1.11		30B	27.63D	3.70
0.1 - 0.4	6.9B 8.1H	8B	15.52E	10.46	0.54	1.11		30B	27.63D	3.70

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0.05 - 0.1								
0.05 - 0.1								
0.1 - 0.4	<2C							30.5I 10.5
59								
0.1 - 0.4	<2C							30.5I 10.5
59								
0.1 - 0.4	<2C							30.5I 10.5
59								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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