Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0376** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	04/08/92	**Elevation:**	362 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6246070 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	520440 Datum: AGD84	**Drainage:**	Poorly drained

Geology

ExposureType:	Auger boring	**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:**	60 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion:

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification: Sodosol
ASC Confidence: No analytical data and little or no knowledge of this soil.

Mapping Unit: N/A
Principal Profile Form: Db2.12
Great Soil Group: N/A

Site

Limited clearing, for example selective logging

Vegetation:

Surface Coarse

No surface coarse fragments; 2-10%, , subrounded, Dolerite

Profile

A1 0 - 0.05 m Dark reddish brown (5YR3/4-Moist); , 0-0% ; Clay loam; Strong grade of structure, 5-10 mm, Granular; Wet; 2-10%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Sharp change to -

B2t 0.05 - 0.55 m Brown (10YR4/3-Moist); , 0-0% ; Medium clay; Strong grade of structure; Smooth-ped fabric; Wet; Many (20 - 50 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Gradual change to -

B3 0.55 - 0.75 m Dark greyish brown (2.5Y4/3-Moist); Mottles, 5YR34, 10-20% , 0-5mm, Faint; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Very many (50 - 100 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 8 (Raupach); Clear change to -

C 0.75 - 0.9 m Olive brown (2.5Y4/4-Moist); Mottles, 2.5Y74, 20-50% , 0-5mm, Faint; Light clay; Massive grade of structure; Dry; Field pH 7.5 (Raupach);

Morphological Notes

A1	% clay
B2t	% clay, ESP
C	Weathered dolerite

Observation Notes

Site Notes

Cooks Rd Granite Outcrop Ridge 25m upslope. Site in gilgai depression Soils on mounds with deep A horizons (approx 25cm)

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m				Cmol (+)/kg				%
0 - 0.05	5.4B	5B								
	6.5H									
0 - 0.05	5.4B	5B								
	6.5H									
0 - 0.11	5.35B									
0.05 - 0.55	5.6B	3B	14.95A	12.44	0.35	0.74			28.48D	
	6.9H									
0.05 - 0.55	5.6B	3B	14.95A	12.44	0.35	0.74			28.48D	
	6.9H									
0.16 - 0.26	5.87B									
0.41 - 0.51	6.64B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis		
		Clay							CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05									60.5I		18
21.5											
0 - 0.05									60.5I		18
21.5											
0 - 0.11											
0.05 - 0.55											
0.05 - 0.55											
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)
P10_NR_C Clay (%) - Not recorded
P10_NR_S Sand (%) - Not recorded
P10_NR_Z Silt (%) - Not recorded