

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0153 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 26/03/92	Elevation: 305 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6250690 AMG zone: 50	Runoff: No Data
Easting/Lat.: 485540 Datum: AGD84	Drainage: Moderately well drained

Geology

ExposureType: Soil pit	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: 40 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 5 %	Aspect: 45 degrees

Surface Soil Condition Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mottled Natric Red Kurosol	Principal Profile Form: Dy3.21
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile

A1	0 - 0.03 m	Black (7.5YR2/0-Moist); , 0-0% ; Loamy fine sand; Massive grade of structure; Sandy (grains prominent)
		fabric; Dry; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Water repellent;
		Field pH 6 (Raupach); Many, fine (1-2mm) roots; Sharp, Smooth change to -
A2	0.03 - 0.1 m	Brown (10YR4/3-Moist); , 0-0% ; Clayey sand; Weak grade of structure, 10-20 mm, Subangular blocky;
		Rough-ped fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Water repellent; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Tongued change to -
B2	0.1 - 0.4 m	Reddish yellow (5YR6/8-Moist); Mottles, 10R46, 10-20% , 5-15mm, Distinct; Light clay; Strong grade of
		structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; 20-50%, fine gravelly, 2-6mm, subangular,
		Quartz, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Clear, Tongued change to -
C	0.4 - 1 m	Yellowish red (5YR5/6-Moist); Substrate influence, 5YR81, 20-50% , 30-mm, Distinct; Sandy light clay;
		Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;
		Field pH 4.5 (Raupach);

Morphological Notes

B2	Fine sand in light clay - kaolinitic
C	Seams of quartz throughout

Observation Notes

Site Notes

A thin veneer of sand over hardsetting surface; variant of Balkuling 1 -lack ferruginous gravel and is not Magnesic; high content of quartz gravel indicating association with quartz seam.

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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				%
0.1 - 0.4	4.3B 5H	16B	0.97H	1.04	0.47	0.3	0.66J		2.78D	
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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0.1 - 0.4									
0.1 - 0.4									

Laboratory Analyses Completed for this profile

15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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)