

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0119 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 19/11/91	Elevation: 368 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6275920 AMG zone: 50	Runoff: No Data
Easting/Lat.: 547230 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: 50 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 4 %	Aspect: 90 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Sodosol	Principal Profile Form: Dy5.11
ASC Confidence:	Great Soil Group: N/A
No analytical data and little or no knowledge of this soil.	

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse 50-90%, medium gravelly, 6-20mm, subangular, Ironstone; No surface coarse fragments

Profile

A11 0 - 0.15 m 50-90%, , repellent; Field	Dark brown (7.5YR3/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Water pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
A12c 0.15 - 0.3 m 50%, , coarse (Raupach);	Dark brown (7.5YR3/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 20-fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.5 Common, fine (1-2mm) roots; Clear change to -
B21 0.3 - 0.6 m medium clay; fabric; Dry; 0- Concretions; Field	Yellowish red (5YR5/8-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Light Moderate grade of structure, 50-100 mm, Prismatic; 10-20 mm, Polyhedral; Smooth-ped 2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), pH 4.5 (Raupach); Common, fine (1-2mm) roots; Clear change to -
B22 0.6 - 0.85 m medium clay; (Raupach);	Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Light Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Field pH 4.5 Common, medium (2-5mm) roots; Gradual change to -
B3 0.85 - 1 m Moderate grade of fragments; Field pH 4.5	Yellow (10YR7/6-Moist); Mottles, 2.5YR48, 10-20% , 30-mm, Distinct; Light clay; structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; 2-10%, Quartz, coarse (Raupach); Common, medium (2-5mm) roots;

Morphological Notes

A11	F,M S GC
A12c	F,M U GC
B21	CUTANS 7.5YR44 F A QZ
B22	+KS
B3	F A QZ +KS

Observation Notes

Site Notes

Downslope(20m) of 'mallet' hills-very eroded with hardsetting surface

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Observation 1

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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				%
0.3 - 0.6	4.2B 4.5H	130B	0.05H	2.88	0.4	1.36	1.34J		4.69D	
0.3 - 0.6	4.2B 4.5H	130B	0.05H	2.88	0.4	1.36	1.34J		4.69D	

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
0.3 - 0.6 58								34.5I 7.5
0.3 - 0.6 58								34.5I 7.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
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