

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0227 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 27/05/92	Elevation: 255 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6294740 AMG zone: 50	Runoff: No Data
Easting/Lat.: 529230 Datum: AGD84	Drainage: Imperfectly 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: Lower-slope	Relief: 30 metres
Elem. Type: Footslope	Slope Category: No Data
Slope: 3 %	Aspect: 90 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Brown Sodosol	Principal Profile Form: Dy4.41
ASC Confidence:	Great Soil Group: N/A
Analytical data are incomplete but reasonable confidence.	

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A11	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose
		consistence; Field pH 5.5 (Raupach); Abundant, very fine (0-1mm) roots; Sharp, Smooth change to -
A12	0.05 - 0.15 m	Brown (10YR5/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Very weak
		consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -
A21e	0.15 - 0.25 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Dry;
		Very weak consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -
A22e	0.25 - 0.3 m	Light grey (10YR7/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Weak consistence;
		Many (20 - 50 %), Ferruginous, Fine (0 - 2 mm), Root linings; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Sharp change to -
B2t	0.3 - 0.4 m	Brown (10YR5/3-Moist); Mottles, 10YR58, 2-10% , 0-5mm, Distinct; Medium clay; Strong grade of
		structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Very firm consistence; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Root linings; Field pH 4.5 (Raupach); Common, fine (1-2mm) roots;
		Sharp, Smooth change to -
	0.4 - m	;

Morphological Notes

B2t Slightly domed - sampled for pH 1:5 and ESP
Granite rock - could not dig through

Observation Notes

Site Notes

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Observation 1

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 - 0.11	4.71B									
0.16 - 0.26	4.86B									
0.3 - 0.4	4.1B	45B	0.56H	6.82	0.12	1.38	1.06J		8.88D	
	4.7H									
0.3 - 0.4	4.1B	45B	0.56H	6.82	0.12	1.38	1.06J		8.88D	
	4.7H									
0.31 - 0.41	3.91B									

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 - 0.11								
0.16 - 0.26								
0.3 - 0.4								41.5I 12
	46.5							
0.3 - 0.4								41.5I 12
	46.5							
0.31 - 0.41								

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