

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0191 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	11/05/92	Elevation:	288 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6271560 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	535100 Datum: AGD84	Drainage:	Moderately well 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:	Flat	Relief:	40 metres
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dy5.41
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A11	0 - 0.15 m	Brown (10YR5/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; Loose
		consistence; Field pH 6 (Raupach); Clear, Smooth change to -
A12	0.15 - 0.25 m	Light grey (10YR7/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose consistence;
		Field pH 6 (Raupach); Abrupt change to -
A2e	0.25 - 0.45 m	Pinkish yellow (7.5YR8/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Moist; Loose
		consistence; Field pH 6.5 (Raupach); Abrupt change to -
B21	0.45 - 0.7 m	Light brownish grey (10YR6/2-Moist); Mottles, 5YR58, 10-20% , 5-15mm, Prominent; Mottles, 10YR66,
		10-20% , 5-15mm, Prominent; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Firm consistence; Field pH 6 (Raupach); Clear change to -
B22	0.7 - 0.8 m	Pale red (2.5YR6/2-Moist); Mottles, 10R46, 20-50% , 5-15mm, Distinct; Mottles, 7.5YR68, 20-50% , 5-
		15mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Firm consistence; Field pH 4.5 (Raupach);

Morphological Notes

A11	Top 5cm severely repellent and pH is approx. 5.0
B21	Sampled for CEC
B22	Top 5cm of this layer was moist

Observation Notes

Site Notes

B21 (L4) sampled for ESP and CEC to check classification

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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 - 0.11	4.59B									
0.16 - 0.26	4.91B									
0.31 - 0.41	5.3B									
0.45 - 0.7	5.2B	89B	1.04H	4.25	0.19	2.74	0.09J		8.22D	
	5.8H									
0.45 - 0.7	5.2B	89B	1.04H	4.25	0.19	2.74	0.09J		8.22D	
	5.8H									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.16 - 0.26											
0.31 - 0.41											
0.45 - 0.7									60I		7
33											
0.45 - 0.7									60I		7
33											

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