

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0320 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 15/07/92	Elevation: 363 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6271190 AMG zone: 50	Runoff: No Data
Easting/Lat.: 545210 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: Upper-slope	Relief: 40 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 2 %	Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dg2.41
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist;
		Loose consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments;
		(Raupach); Abundant, fine (1-2mm) roots; Sharp, Smooth change to -
A2e	0.15 - 0.25 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure;
		Moist; Loose consistence; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6
		(Raupach); Common, very fine (0-1mm) roots; Abrupt change to -
B2t	0.25 - 0.55 m	Light grey (10YR7/2-Moist); Mottles, 10R46, 10-20% , 0-5mm, Distinct; Mottles, 10YR78, 10-20% , 0-
		5mm, Faint; Light clay; Moderate grade of structure; Rough-ped fabric; Moist; Very firm consistence;
		Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B3	0.55 - 0.65 m	White (10YR8/1-Moist); Mottles, 10R48, 10-20% , 5-15mm, Prominent; Light clay;
		Moderate grade of structure; Rough-ped fabric; Wet; Firm consistence; Field pH 5.5 (Raupach); Diffuse change to -
C	0.65 - 1 m	White (10YR8/1-Moist); Mottles, 10R48, 20-50% , 5-15mm, Prominent; Coarse sandy clay loam; Massive
		grade of structure; Dry; Field pH 5.5 (Raupach);

Morphological Notes

B2t	VERY SLIGHT DISPERSION - SAMPLED ESP
B3	SOME KAOLINITE CLAY - WATER ENTERED ABOUT 60CM
C	KAOLINITE CLAY

Observation Notes

Site Notes

Hutton road

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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	5.16B									
0.16 - 0.26	4.75B									
0.25 - 0.55	4.7B	4B	1.05H	2.12	0.02	0.26	0.14J		3.45D	
	5.7H									
0.25 - 0.55	4.7B	4B	1.05H	2.12	0.02	0.26	0.14J		3.45D	
	5.7H									
0.41 - 0.51	4.51B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.16 - 0.26											
0.25 - 0.55									31I		5.5
	63.5										
0.25 - 0.55									31I		5.5
	63.5										
0.41 - 0.51											

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