

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0088 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	04/11/91	Elevation:	280 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6268570 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	581690 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Lower-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dy3.22
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Ironstone 20-50%, medium gravelly, 6-20mm, rounded, Ironstone; 2-10%, , subrounded, Ironstone

Profile

A11 0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 10-20%,
Field pH 5.5	Ironstone, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
A12c 0.05 - 0.12 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 20-
Nodules; Many	50%, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 6 (Raupach);
Many, fine (1-	2mm) roots; Abrupt change to -
A21c 0.12 - 0.25 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 50-
90%, Ironstone,	coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Many
(20 - 50 %),	Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 6.5 (Raupach); Common,
medium (2-5mm)	roots; Clear change to -
A22c 0.25 - 0.43 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy loam; Single grain grade of structure;
Moderately	moist; 50-90%, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 -
20 mm),	Nodules; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 7
(Raupach);	Few, fine (1-2mm) roots; Abrupt change to -
B21 0.43 - 0.7 m	Yellow (10YR7/6-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Faint; Medium clay;
Moderate grade of	structure; Rough-ped fabric; Moderately moist; 10-20%, Ironstone, coarse fragments; Few
(2 - 10 %),	Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Few, fine (1-2mm)
roots; Gradual	change to -

B22 0.7 - 1 m Light grey (5YR7/1-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Medium clay;
Weak grade of structure; Rough-ped fabric; Moderately moist; Field pH 7 (Raupach);

Morphological Notes

A11 M IS
A12c M,C IS
A21c M,C IS
A22c M,F IS
B21 M IS SAMPLED +MS
B22 +MS

Observation Notes

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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				%
0.43 - 0.7	6.3B 6.6H	150B	1.79A	5.51	0.07	1.66			9.03D	
0.43 - 0.7	6.3B 6.6H	150B	1.79A	5.51	0.07	1.66			9.03D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.43 - 0.7									42I		7
51											
0.43 - 0.7									42I		7
51											

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15J_BASES Sum of Bases
15L1_a Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using Sum of Cations and measured clay
15N1_a Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
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