

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0138 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	03/12/91	Elevation:	319 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6326810 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	497860 Datum: AGD84	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	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:	Mid-slope	Relief:	40 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Eutrophic Brown Chromosol		Principal Profile Form:	Dy2.22
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Dolerite

Profile

A1	0 - 0.09 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Loam; Moderate grade of structure, 5-10 mm, Subangular
		blocky; Rough-ped fabric; Dry; 10-20%, coarse fragments; Field pH 6 (Raupach);
Abundant, fine (1-		2mm) roots; Clear, Smooth change to -
A2	0.09 - 0.56 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure;
Rough-ped fabric;		Dry; 20-50%, Dolerite, coarse fragments; Field pH 6.5 (Raupach); Many, fine (1-2mm)
roots; Smooth		change to -
B2t	0.56 - 0.89 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm,
		Polyhedral; Smooth-ped fabric; Dry; 20-50%, coarse fragments; Field pH 7 (Raupach);
Many, fine (1-		2mm) roots; Abrupt, Smooth change to -
C	0.89 - 1 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Coarse sand; Massive grade of structure; Dry;
50-90%,		Quartz, coarse fragments; Field pH 7 (Raupach);

Morphological Notes

A1	F,M S CONTAINS FINE SAND
A2	M S DR FINE FELDSPAR
B2t	F A FELD.SLICKENSIDES CDK
C	F A QZ & M WEATHERED GRAN

Observation Notes

Site Notes

100% rock (dolerite) outcrop 20m upslope with York gum -colluvium

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.09	5B 5.8H	5B	8.18H	1.47	0.13	0.15	0.11J		9.93D	
0 - 0.09	5B 5.8H	5B	8.18H	1.47	0.13	0.15	0.11J		9.93D	
0.09 - 0.56	6B 7.2H	2B	3.32A	2.13	0.06	0.16			5.67D	
0.09 - 0.56	6B 7.2H	2B	3.32A	2.13	0.06	0.16			5.67D	
0.56 - 0.89	5.7B 6.9H	6B	9.09A	9.25	0.16	0.7			19.2D	
0.56 - 0.89	5.7B 6.9H	6B	9.09A	9.25	0.16	0.7			19.2D	
0.89 - 1	5.6B 7H	2B	6.01A	5	0.09	0.65			11.75D	
0.89 - 1	5.6B 7H	2B	6.01A	5	0.09	0.65			11.75D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.09 15.3		1.88D		140B	0.137E					12.4
0 - 0.09 15.3		1.88D		140B	0.137E					12.4
0.09 - 0.56 17.4		0.21D		43B	0.022E					11.9
0.09 - 0.56 17.4		0.21D		43B	0.022E					11.9
0.56 - 0.89 49.9		0.13D		17B	0.015E					8.8
0.56 - 0.89 49.9		0.13D		17B	0.015E					8.8
0.89 - 1 11.4		0.12D		35B	0.011E					6.5
0.89 - 1 11.4		0.12D		35B	0.011E					6.5

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
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	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
15A1_MG for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_AL	salts
15E1_CA	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	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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	

and measured clay

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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
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)