

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2004 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	John-Paul Van Moort	Locality:	
Date Desc.:	15/03/94	Elevation:	260 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6295400 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	473700 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 rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8 %	Aspect:	No Data

Surface Soil Condition Hardsetting, Hardsetting

Erosion: (sheet)

Soil Classification

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

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Loamy sand; Weak grade of structure, ; Sandy (grains)
		prominent) fabric; Dry; 10-20%, coarse fragments; Strongly water repellent, "Field pH 5.5 (Raupach);
		Clear change to -
A3	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Sandy loam; Dry; 20-50%, coarse fragments;
		Gradual change to -
B	0.2 - 0.6 m	Red (2.5YR4/6-Moist); , 0-0% ; Light medium clay; Weak grade of structure; Earthy fabric;
		Dry; 20-50%, coarse fragments; Field pH 5.5 (Raupach); Gradual change to -
B	0.6 - 1.2 m	Yellowish brown (10YR5/8-Moist); Mottles, 7.5YR68; , 2.5YR34; Medium clay; Moist;
		Field pH 6.5 (Raupach); Abrupt change to -
C	1.2 - m	;

Morphological Notes

A1	Gravel include ironstone, granite and dolerite.
A3	Gravel includes ironstone, granite and dolerite.
B	Gravel includes ironstone, granite and dolerite.
C	Weathered gneiss

Observation Notes

Site Notes

Soil pit - Date Creek Catchment - "dolerite red clay". Put located on Rutherford's "Goldmead" property just below granite outcrop on ridge.
 Loose sand layer on surface. Land use options include trees, crops, dryland sorghum or pasture.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na	Acidity	%
0 - 0.1	5B 5.6H	18B	6.3H	1.31	0.49	0.38	8.48D
0.1 - 0.2	4.6B 5.4H	4B	4.47H	0.91	0.18	0.13	5.69D
0.25 - 0.55	5.3B 6H	5B	3.37H	4.14	0.04	0.31	7.86D
0.65 - 0.95	5.9B 6.3H	4B	1.2H	3.73	0.02	0.14	5.09D
1 - 1.2	5.9B 6.3H	4B	0.97H	3.84	0.04	0.18	5.03D

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1 6.3		3.69D		370B	0.3E			11.1
0.1 - 0.2 15.4		0.67D		71B	0.051E			12.9
0.25 - 0.55 37.2		0.69D		68B	0.047E			12
0.65 - 0.95 34.7		0.1D		26B	0.011E			10.7
1 - 1.2 41.3		0.11D		24B	0.012E			11.6

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
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
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_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)