

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0143 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 04/12/91	Elevation: 288 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6333960 AMG zone: 50	Runoff: No Data
Easting/Lat.: 500760 Datum: AGD84	Drainage: Imperfectly 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Flat	Relief: 20 metres
Elem. Type: Valley flat	Slope Category: No Data
Slope: 1 %	Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Ferric Mesotrophic Grey Chromosol	Principal Profile Form: Dy2.52
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; No surface coarse fragments

Profile

A1 0 - 0.1 m 10-20 mm, fragments; 20-50%, 2mm) roots; Abrupt,	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Weak grade of structure, Subangular blocky; Rough-ped fabric; Dry; 10-20%, subrounded, Quartz, coarse subrounded, Ironstone, coarse fragments; Field pH 6.5 (Raupach); Abundant, fine (1- Smooth change to -
B2 0.1 - 0.4 m Sandy (grains Ferruginous, Root linings;	Pale brown (10YR6/3-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; prominent) fabric; Dry; 50-90%, Quartz, coarse fragments; Very many (50 - 100 %), Coarse (6 - 20 mm), Concretions; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Irregular change to -
C1 0.4 - 1 m loam; Massive fragments; Very many Common, fine (1-	Light brownish grey (10YR6/2-Moist); Mottles, 10YR56, 20-50% , 30-mm, Distinct; Sandy grade of structure; Sandy (grains prominent) fabric; Dry; 20-50%, Quartz, coarse (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Fragments; Field pH 7 (Raupach); 2mm) roots; Clear, Smooth change to -
C2 1 - 1.1 m loam; Massive - 20 %),	Light grey (10YR7/1-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Distinct; Sandy clay grade of structure; Moderately moist; 20-50%, Ironstone, coarse fragments; Common (10 Ferruginous, Coarse (6 - 20 mm), Fragments; Field pH 7 (Raupach);

Morphological Notes

A1	F U QZ & M U IS
B2	F QZ F,M,C U IS IS CEMENTED W. BY CL
C1	F QZ & F,M S IS & KS IN MSL
C2	F,M S IS

Observation Notes

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Observation 1

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 - 0.1	5.1B 5.8H	9B	4.07H	0.76	0.13	0.18	0.07J		5.14D	
0 - 0.1	5.1B 5.8H	9B	4.07H	0.76	0.13	0.18	0.07J		5.14D	
0.1 - 0.4	5.4B 6.2H	4B	2.21H	0.94	0.06	0.16	<0.02J		3.37D	
0.1 - 0.4	5.4B 6.2H	4B	2.21H	0.94	0.06	0.16	<0.02J		3.37D	
0.4 - 1	6.3B 6.5H	10B	1.82H	1.81	0.02	0.33	<0.02J		3.98D	
0.4 - 1	6.3B 6.5H	10B	1.82H	1.81	0.02	0.33	<0.02J		3.98D	
1 - 1.1	6.1B 6.3H	6B	1.2H	2.6	0.02	0.26	<0.02J		4.08D	
1 - 1.1	6.1B 6.3H	6B	1.2H	2.6	0.02	0.26	<0.02J		4.08D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS	Silt
0 - 0.1 9.8		2.04D		160B	0.164E						4.6
0 - 0.1 9.8		2.04D		160B	0.164E						4.6
0.1 - 0.4 34		0.45D		54B	0.035E						3.1
0.1 - 0.4 34		0.45D		54B	0.035E						3.1
0.4 - 1 22.6		0.25D		37B	0.008E						4.3
0.4 - 1 22.6		0.25D		37B	0.008E						4.3
1 - 1.1 44.2		0.3D		26B	0.007E						6.7
1 - 1.1 44.2		0.3D		26B	0.007E						6.7

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
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)

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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)