

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2314 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 12/04/95	Elevation: 260 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6297580 AMG zone: 50	Runoff: No Data
Easting/Lat.: 512150 Datum: AGD84	Drainage: Poorly 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: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Open depression (vale)	Relief: 5 metres
Elem. Type: Drainage depression	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Sodic Calcic Grey Chromosol	Principal Profile Form: Dy4.13
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 - 0.08 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; 2-10%, fine
		gravelly, 2-6mm, subangular, Quartz, coarse fragments; Water repellent; Field pH 5.5
		(Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -
A3e	0.08 - 0.2 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Field pH 6
		(Raupach); Common, very fine (0-1mm) roots; Abrupt, Wavy change to -
B2	0.2 - 0.8 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Light medium clay; Weak grade of structure, 200-500 mm,
		Prismatic; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Field pH 6.5
		(Raupach); Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B3k	0.8 - 1.35 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Distinct; Light clay; Weak grade
		of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; 2-10%, coarse fragments;
		Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Few (2 - 10 %), Calcareous,
		Medium (2 -6 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Few,
		medium (2-5mm) roots; Clear, Wavy change to -
C	1.35 - 1.7 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Distinct; Sandy clay loam;
		Massive grade of structure; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Broad flat valley land management unit. Chem analysis indicates soil is non-sodic and is classified as a Chromosol and a variant of Fairclough 1.

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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 - 0.08	4.8B 5.6H	13B	3.3H	0.61	0.28	0.21	0.18J		4.4D	
0 - 0.08	4.8B 5.6H	13B	3.3H	0.61	0.28	0.21	0.18J		4.4D	
0 - 0.1	4.6B 5.3H	8B								
0 - 0.1	4.6B 5.3H	8B								
0.08 - 0.2	5.3B 6.3H	2B	1.1H	0.31	0.06	0.04	0.03J		1.51D	
0.08 - 0.2	5.3B 6.3H	2B	1.1H	0.31	0.06	0.04	0.03J		1.51D	
0.2 - 0.4	5.3B 6.7H	3B	8.4A	5.5	0.27	0.47			14.64D	
0.2 - 0.4	5.3B 6.7H	3B	8.4A	5.5	0.27	0.47			14.64D	
0.4 - 0.8	6.2B 7.4H	7B	7.6A	6.4	0.37	0.94			15.31D	
0.4 - 0.8	6.2B 7.4H	7B	7.6A	6.4	0.37	0.94			15.31D	
0.8 - 1.2	8.3B 8.9H	58B	8.2E	6.8	0.14	1.7		16B	16.84D	10.63
0.8 - 1.2	8.3B 8.9H	58B	8.2E	6.8	0.14	1.7		16B	16.84D	10.63
1.2 - 1.35	7.8B 8.5H	63B	11E	8.4	0.2	3.6		24B	23.2D	15.00
1.2 - 1.35	7.8B 8.5H	63B	11E	8.4	0.2	3.6		24B	23.2D	15.00
1.35 - 1.7	8B 8.6H	77B	4.4E	3.8	0.1	1.9		10B	10.2D	19.00
1.35 - 1.7	8B 8.6H	77B	4.4E	3.8	0.1	1.9		10B	10.2D	19.00

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 - 0.08 4.5		1.87D		180B	0.155E						7.1
0 - 0.08 4.5		1.87D		180B	0.155E						7.1
0 - 0.1		1.6D		170B	0.127E						
0 - 0.1		1.6D		170B	0.127E						
0.08 - 0.2 5.3		0.17D		32B	0.013E						13.8
0.08 - 0.2 5.3		0.17D		32B	0.013E						13.8
0.2 - 0.4 37.3		0.22D		34B	0.027E						14.4
0.2 - 0.4 37.3		0.22D		34B	0.027E						14.4
0.4 - 0.8 33.9		0.1D		24B	0.012E						16.5
0.4 - 0.8 33.9		0.1D		24B	0.012E						16.5
0.8 - 1.2 24.3	5C	0.06D		24B	0.007E						19.5
0.8 - 1.2 24.3	5C	0.06D		24B	0.007E						19.5
1.2 - 1.35	<2C	0.05D		30B	0.008E						14.6

14.9						
1.2 - 1.35	<2C	0.05D	30B	0.008E		14.6
14.9						

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1.35 - 1.7 19.7	<2C	0.05D	15B	0.005E	5.3
1.35 - 1.7 19.7	<2C	0.05D	15B	0.005E	5.3

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 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_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_MG soluble salts	soluble salts
15C1_NA soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15E1_AL	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_CA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_MN	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15L1_a	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
Sum of Cations	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15N1_a	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15N1_b	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
18A1_NR	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
19B_NR	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
3_NR	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
4_NR	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
4B_AL_NR	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
4B1	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
6A1_UC	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
7A1	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
9A3	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
9B_NR	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
9H1	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10_1m2m	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10_20_75	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10_75_106	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10_gt2m	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10_NR_C	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10_NR_Saa	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10_NR_Z	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
P10106_150	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

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)