Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0158** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	15/04/92	**Elevation:**	299 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6270250 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	554120 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Flat	**Relief:**	10 metres
Elem. Type:	Terrace flat	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Sodic Calcic Grey Dermosol **Principal Profile Form:** Gn4.53
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 Very dark grey (10YR3/1-Moist); , 0-0% ; Coarse sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Tongued change to -

B21 0.1 - 0.35 m Grey (10YR6/1-Moist); , 0-0% ; Coarse sandy light clay; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Wavy change to -

B22k 0.35 - 0.8 m Light grey (10YR7/1-Moist); , 0-0% ; Sandy light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous, Extremely coarse (> 60 mm), Nodules; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual, Tongued change to -

C 0.8 - 1.2 m White (10YR8/2-Moist); Substrate influence, 10YR62, 10-20% , 15-30mm, Distinct; Light clay; Massive grade of structure; Dry; Field pH 9.5 (Raupach);

Morphological Notes

A1	SAMPLED
B21	SAMPLED
B22k	SAMPLED
C	KAOLINITE. SUBPLASTIC. SAMPLED

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations Ca	Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	5.4B 6.5H 5.5B 6.8H	15B 16B	5.95H	4.21	0.32	1.23	0.02J		11.71D	
0 - 0.1	5.4B 6.5H 5.5B 6.8H	15B 16B	5.95H	4.21	0.32	1.23	0.02J		11.71D	
0 - 0.1	5.4B 6.5H 5.5B 6.8H	15B 16B	5.95H	4.21	0.32	1.23	0.02J		11.71D	
0 - 0.11	5.41B									
0 - 0.1	5.4B 6.5H 5.5B 6.8H	15B 16B	5.95H	4.21	0.32	1.23	0.02J		11.71D	
0.1 - 0.35	8.4B 9.3H	56B	3.51E	5.71	0.34	3.81		14B	13.37D	27.21
0.1 - 0.35	8.4B 9.3H	56B	3.51E	5.71	0.34	3.81		14B	13.37D	27.21
0.1 - 0.35	8.4B 9.3H	56B	3.51E	5.71	0.34	3.81		14B	13.37D	27.21
0.1 - 0.35	8.4B 9.3H	56B	3.51E	5.71	0.34	3.81		14B	13.37D	27.21
0.16 - 0.26	6.9B									
0.35 - 0.8	8.7B 9.6H	130B	2.06E	7.08	0.44	6.81		16B	16.39D	42.56
0.35 - 0.8	8.7B 9.6H	130B	2.06E	7.08	0.44	6.81		16B	16.39D	42.56
0.35 - 0.8	8.7B 9.6H	130B	2.06E	7.08	0.44	6.81		16B	16.39D	42.56
0.35 - 0.8	8.7B 9.6H	130B	2.06E	7.08	0.44	6.81		16B	16.39D	42.56
0.41 - 0.51	8.36B									
0.8 - 1.2	8.4B 8.8H	460B	0.74E	5.87	0.29	5.68		10B	12.58D	56.80
0.8 - 1.2	8.4B 8.8H	460B	0.74E	5.87	0.29	5.68		10B	12.58D	56.80
0.8 - 1.2	8.4B 8.8H	460B	0.74E	5.87	0.29	5.68		10B	12.58D	56.80

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle Size Analysis GV	CS	FS %	Silt	Clay
0 - 0.1		1.38D 1.18D		140B 120B	0.088E 0.072E						8.6	19.1
0 - 0.1		1.38D 1.18D		140B 120B	0.088E 0.072E						8.6	19.1

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0 - 0.1		1.38D	140B	0.088E		8.6
19.1						
		1.18D	120B	0.072E		
0 - 0.11						
0 - 0.1		1.38D	140B	0.088E		8.6
19.1						
		1.18D	120B	0.072E		
0.1 - 0.35	<2C	0.42D	58B	0.027E		8
32.8						
0.1 - 0.35	<2C	0.42D	58B	0.027E		8
32.8						
0.1 - 0.35	<2C	0.42D	58B	0.027E		8
32.8						
0.1 - 0.35	<2C	0.42D	58B	0.027E		8
32.8						
0.16 - 0.26						
0.35 - 0.8	3C	0.12D	46B	0.01E		7.8
42.9						
0.35 - 0.8	3C	0.12D	46B	0.01E		7.8
42.9						
0.35 - 0.8	3C	0.12D	46B	0.01E		7.8
42.9						
0.35 - 0.8	3C	0.12D	46B	0.01E		7.8
42.9						
0.41 - 0.51						
0.8 - 1.2	<2C	0.13D	81B	0.005E		16.8
45.6						
0.8 - 1.2	<2C	0.13D	81B	0.005E		16.8
45.6						
0.8 - 1.2	<2C	0.13D	81B	0.005E		16.8
45.6						

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
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
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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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)

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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)