Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0121** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	19/11/91	**Elevation:**	361 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6276170 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	548700 Datum: AGD84	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Auger boring	**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:	Upper-slope	**Relief:**	60 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	270 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Mesotrophic Mottled-Subnatric Grey Sodosol **Principal Profile Form:** Dy5.41
ASC Confidence: **Great Soil Group:** N/A
Analytical data are incomplete but reasonable confidence.

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile

A1 0 - 0.29 m Black (10YR2/1-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Moderately moist; 10-20%, Quartz, coarse fragments; Water repellent; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt change to -

A21e 0.29 - 0.4 m Grey (10YR6/1-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Moderately moist; 20-50%, Quartz, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -

A22e 0.4 - 0.62 m Pale brown (10YR6/3-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Moderately moist; 20-50%, Quartz, coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -

B21 0.62 - 0.9 m Pale brown (10YR6/3-Moist); Mottles, 10R36, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; 10-20%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Clear change to -

B22t 0.9 - 1 m Light grey (10YR7/2-Moist); Mottles, 10R36, 10-20% , 5-15mm, Prominent; Medium heavy clay; Moderate grade of structure; Smooth-ped fabric; Dry; 10-20%, Quartz, coarse fragments; Field pH 5.5 (Raupach);

Morphological Notes

A1	F A QZ
A21e	F A & FEW M A QZ
A22e	F A & FEW M A QZ
B21	F,M A QZ SAMPLED +KS
B22t	F,M A QZ +KS

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.62 - 0.9	4.4B 5.8H	3B	0.29H	2.2	<0.02	0.28	0.21J		2.78D	
0.62 - 0.9	4.4B 5.8H	3B	0.29H	2.2	<0.02	0.28	0.21J		2.78D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.62 - 0.9 40									56.5I		3.5
0.62 - 0.9 40									56.5I		3.5

Laboratory Analyses Completed for this profile

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
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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded