

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0133 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 28/11/91	Elevation: 275 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6273920 AMG zone: 50	Runoff: No Data
Easting/Lat.: 567940 Datum: AGD84	Drainage: No Data

Geology

ExposureType: Auger boring	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: Flat	Relief: 2 metres
Elem. Type: Valley flat	Slope Category: No Data
Slope: %	Aspect: 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Calcic Hypernatric Grey Sodosol	Principal Profile Form: Dy2.42
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry;
		Field pH 6.5 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt change to -
A2e	0.08 - 0.28 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist;
		0-2%, Quartz, coarse fragments; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
B2	0.28 - 0.55 m	Pale brown (10YR6/3-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Prominent; Sandy medium clay; Strong
		grade of structure, 200-500 mm, Columnar; Rough-ped fabric; Dry; Field pH 8.5 (Raupach); Gradual
		change to -
C11	0.55 - 0.8 m	Pale brown (10YR6/3-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Prominent; Sandy clay loam; Rough-
		ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations;
		Field pH 8.5 (Raupach); Clear change to -
C12	0.8 - 1.05 m	Very pale brown (10YR7/4-Moist); Mottles, 5YR58, 2-10% , 5-15mm, Distinct; Sandy light clay; Rough-
		ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field
		pH 8 (Raupach); Clear change to -
C13	1.05 - 1.1 m	Very pale brown (10YR7/3-Moist); Mottles, 5YR58, 20-50% , 5-15mm, Distinct; , N50; Clay loam, fine
		sandy; Rough-ped fabric; Moist; Field pH 8 (Raupach);

Morphological Notes

A1	F S QZ (<0.5%) GRAVEL
A2e	F S QZ
B2	SAMPLED

Observation Notes

Site Notes

Site on roadside-landuse to east is grazing, to west is cropping(oats)

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.28 - 0.55	7.1B 8.1H	65B	1.98E	4.34	0.08	2.51		10B	8.91D	25.10
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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
0.28 - 0.55	<2C							63I 3.5
33.5								
0.28 - 0.55	<2C							63I 3.5
33.5								
0.28 - 0.55	<2C							63I 3.5
33.5								

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
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	
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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