

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0083 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 01/11/91
Map Ref.:
Northing/Long.: 6268220 AMG zone: 50
Easting/Lat.: 577180 Datum: AGD84
Locality:
Elevation: 282 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** Alluvial plain

Morph. Type: Crest
Elem. Type: Lunette
Slope: 1 %
Relief: 8 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A
Mapping Unit: N/A
Principal Profile Form: Dy3.22
ASC Confidence: Confidence level not specified
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 Sandy (grains)	0 - 0.07 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; prominent) fabric; Dry; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Sharp change to -
A2 Sandy (grains)	0.07 - 0.25 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Loamy fine sand; Massive grade of structure; prominent) fabric; Dry; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Clear change to -
B1 (grains)	0.25 - 0.5 m	Brown (7.5YR5/4-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Sandy prominent) fabric; Dry; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8 (Raupach); Few, fine (1-2mm) roots; Abrupt change to -
B21tk Sandy (grains)	0.5 - 0.6 m	Light reddish brown (2.5YR6/3-Moist); , 0-0% ; Medium clay; Massive grade of structure; prominent) fabric; Dry; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach); Clear change to -
B22w clay loam; Calcareous, Very	0.6 - 0.8 m	Light reddish brown (2.5YR6/3-Moist); Mottles, 7.5YR56, 10-20% , 5-15mm, Faint; Sandy Massive grade of structure; Sandy (grains prominent) fabric; Dry; Few (2 - 10 %), coarse (20 - 60 mm), Soft segregations; Field pH 8.5 (Raupach); Clear change to -
C1 Sandy (grains)	0.8 - 1 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Sand; Single grain grade of structure; prominent) fabric; Dry; Field pH 8 (Raupach); Gradual change to -
C2 structure; Sandy	1 - 1.2 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy clay loam; Single grain grade of (grains prominent) fabric; Dry; Field pH 8 (Raupach);

Morphological Notes

A1	VESICULAR SURFACE TO FRAG
A2	VESICULAR SURFACE TO FRAG
B21tk	SAMPLED

Observation Notes**Site Notes**

On western end of lake coyrecup lunette - fresh water lake becoming saline due to rising groundwater

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Observation 1

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.5 - 0.6	8.2B 9H	16B	5.27E	1.35	0.12	0.68		3B	7.42D	22.67
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Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.5 - 0.6 26.5	<2C								70.5l		3
0.5 - 0.6 26.5	<2C								70.5l		3
0.5 - 0.6 26.5	<2C								70.5l		3

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