

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1793 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 27/06/94
Map Ref.:
Northing/Long.: 6237680 AMG zone: 50
Easting/Lat.: 585620 Datum: AGD84
Locality:
Elevation: 240 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly 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: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Valley flat
Slope: 0 %
Pattern Type: Rises
Relief: 1 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A
Mapping Unit: N/A
Principal Profile Form: Db3.23
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

A1p	0 - 0.08 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Loamy fine sand; Massive grade of structure; Sandy (grains
		prominent) fabric; Moist; Field pH 5.5 (Raupach); Abrupt change to -
A2	0.08 - 0.2 m	Brown (7.5YR4/4-Moist); , 0-0% ; Fine sand; Massive grade of structure; Sandy (grains
		prominent) fabric; Field pH 7 (Raupach); Abrupt, Smooth change to -
B21	0.2 - 0.4 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; Fine sandy medium clay; Moderate grade of
		structure; Rough-ped fabric; Moderately moist; Field pH 8.5 (Raupach); Clear change to -
B22	0.4 - 0.5 m	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR46, 10-20% , 15-30mm, Distinct; Fine
		sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil
		matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -
B23k	0.5 - 0.6 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Light clay; Moderate grade of structure;
		Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Many (20
		- 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; Soil matrix is Highly calcareous; Field pH
		9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site on alluvial plain of the Pallinup River.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity				%
0 - 0.1	4.5B	6B								
	5.3H									
0.15 - 0.25	5.8B	4B								
	6.8H									
	5.8B									
	6.8H									
0.15 - 0.25	5.8B	4B								
	6.8H									
	5.8B									
	6.8H									
0.2 - 0.4	7.4B	14B	5.4E	6	0.33	2.7		17B	14.43D	15.88
	8.6H									
0.2 - 0.4	7.4B	14B	5.4E	6	0.33	2.7		17B	14.43D	15.88
	8.6H									
0.4 - 0.5	8.5B	30B								
	9.4H									

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 - 0.1											
0.15 - 0.25											
0.15 - 0.25											
0.2 - 0.4	<2C								52.5l		4
43.5											
0.2 - 0.4	<2C								52.5l		4
43.5											
0.4 - 0.5											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded