

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0103 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 12/11/91	Elevation: 280 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6267830 AMG zone: 50	Runoff: No Data
Easting/Lat.: 570610 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: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 5 metres
Elem. Type: Valley flat	Slope Category: No Data
Slope: 0 %	Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy3.42
	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 0 - 0.15 m structure; Moderately roots; Abrupt	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of moist; 10-20%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, fine (1-2mm) change to -
A2e 0.15 - 0.35 m Moderately mm), Nodules;	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sand; Single grain grade of structure; moist; 20-50%, , coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Clear change to -
B21 0.35 - 0.65 m Moderate grade of %), mm), Nodules;	Olive yellow (2.5Y6/6-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct; Light clay; structure; Rough-ped fabric; Moderately moist; 2-10%, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few (2 - 10 %), Ferruginous, Medium (2 - 6 Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
B22 0.65 - 0.85 m 2.5YR48; Sandy 2%, , coarse (Raupach);	Light yellowish brown (2.5Y6/4-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct; , light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 0- fragments; Very few (0 - 2 %), Ferruginous, Medium (2 - 6 mm), Nodules; Field pH 8

Morphological Notes

A1	F S QZ +KS
A2e	F,M R,U GC +KS
B21	F,M U GC. SAMPLED +MS
B22	F R GC

Observation Notes

Site Notes

Some indication of salinity nearby

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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				%
0.35 - 0.65	6B	66B	1.78A	2.84	0.07	1.29			5.98D	
	6.2H									
0.35 - 0.65	6B	66B	1.78A	2.84	0.07	1.29			5.98D	
	6.2H									

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
0.35 - 0.65									
41								51I	8
0.35 - 0.65									
41								51I	8

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, 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
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