

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0115 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 18/11/91	Elevation: 328 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6264400 AMG zone: 50	Runoff: No Data
Easting/Lat.: 547620 Datum: AGD84	Drainage: Poorly 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: Lower-slope	Relief: 45 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 3 %	Aspect: 180 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: Dy3.13
	Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A11 0 - 0.02 m Dry; Water	Dark grey (10YR4/1-Moist); , 0-0% ; Fine sandy loam; Single grain grade of structure; repellent; Field pH 6 (Raupach); Abundant, very fine (0-1mm) roots; Sharp change to -
A12 0.02 - 0.4 m Moderately moist; Clear change to	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; 2-10%, Quartz, coarse fragments; Field pH 7.5 (Raupach); Few, coarse (>5mm) roots; -
B21 0.4 - 0.6 m sandy light clay; fine (1-2mm)	Greyish brown (10YR5/2-Moist); Mottles, 10YR58, 10-20% , 15-30mm, Distinct; Coarse Moderate grade of structure; Rough-ped fabric; Dry; Field pH 9 (Raupach); Common, roots; Clear change to -
B22t 0.6 - 0.75 m Moderate grade of (Raupach); Few,	Brown (10YR5/3-Moist); Mottles, 10YR68, 10-20% , 15-30mm, Distinct; Medium clay; structure; Rough-ped fabric; Moist; Soil matrix is Slightly calcareous; Field pH 9.5 medium (2-5mm) roots; Clear change to -
B31 0.75 - 0.8 m structure; Moist; Field	Greyish brown (2.5Y5/3-Moist); , 0-0% ; Clay loam, fine sandy; Massive grade of pH 9.5 (Raupach); Clear change to -
B32 0.8 - 1 m Moist; Field pH	Brownish yellow (10YR6/6-Moist); , 0-0% ; Clayey fine sand; Massive grade of structure; 9 (Raupach);

Morphological Notes

A11	+MS
A12	F A QZ
B21	TOP2CM-CEMENT.SAND SAMPLE
B22t	+FS
B32	HARD LAYER

Observation Notes

Site Notes

Mild salinity(barley grass)<10m downslope-15m upslope of drainage line

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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				%
0.4 - 0.6	7.8B 9.2H	25B	0.73E	2.99	<0.02	1.25		6B	4.98D	20.83
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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
0.4 - 0.6	<2C							67.5l	15
17.5									
0.4 - 0.6	<2C							67.5l	15
17.5									
0.4 - 0.6	<2C							67.5l	15
17.5									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	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