

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0043 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 11/10/91	Elevation: 298 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6259130 AMG zone: 50	Runoff: No Data
Easting/Lat.: 575800 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: Gently undulating plains <9m 1-3% **Pattern Type:** Alluvial plain

Morph. Type: Flat	Relief: 5 metres
Elem. Type: Plain	Slope Category: No Data
Slope: 1 %	Aspect: 90 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: Dg1.13
	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

<p>A1 0 - 0.05 m</p> <p>Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Sandy</p> <p>(grains prominent) fabric; Dry; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots;</p> <p>Abrupt change to -</p>	
<p>B21t 0.05 - 0.28 m</p> <p>Light grey (10YR7/2-Moist); , 0-0% ; Medium clay; Strong grade of structure, Columnar; Rough-ped</p> <p>matrix is Slightly</p> <p>fabric; Dry; Few (2 - 10 %), Organic (humified), Medium (2 -6 mm), Root linings; Soil calcareous; Field pH 6 (Raupach); Few, medium (2-5mm) roots; Gradual change to -</p>	
<p>B22 0.28 - 0.5 m</p> <p>Light brownish grey (10YR6/2-Moist); , 0-0% ; Sandy light clay; Moderate grade of structure; Rough-ped</p> <p>segregations; Soil</p> <p>matrix is Slightly calcareous; Field pH 9 (Raupach); Few, medium (2-5mm) roots; Clear change to -</p>	
<p>B23 0.5 - 0.6 m</p> <p>Light brownish grey (10YR6/2-Moist); , 0-0% ; Coarse sandy medium clay; Weak grade of structure;</p> <p>Rough-ped fabric; Moderately moist; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm),</p> <p>Concretions; Soil matrix is Highly calcareous; Field pH 9 (Raupach); Few, very fine (0-1mm) roots;</p> <p>Diffuse change to -</p>	
<p>BC 0.6 - 0.85 m</p> <p>Very pale brown (10YR7/3-Moderate</p> <p>grade of structure; Rough-ped fabric; Moderately moist; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Few, very fine (0-</p> <p>1mm) roots; Clear change to -</p>	
<p>C 0.85 - m</p> <p>Light grey (10YR7/1-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; Medium clay; Weak grade of</p> <p>structure; Rough-ped fabric; Moderately moist; Soil matrix is Moderately calcareous;</p>	

Field pH 8.5

(Raupach);

Morphological Notes

B21t SPORADIC BLEACH AT TOP OF HORIZON. SAMPLED. +S
B22 MKC LAYER AT HORIZON TOP
B23 SEGR. ALKC AT 60CM
BC +KS
C +KS

Observation Notes

Site Notes

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0043 **Observation** 1
Agency Name: Agriculture Western Australia

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.05 - 0.28	6.7B 7.8H	17B	4.35A	5.27	0.13	1.69			11.44D	
0.05 - 0.28	6.7B 7.8H	17B	4.35A	5.27	0.13	1.69			11.44D	

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			%	
0.05 - 0.28									58I		6.5
35.5											
0.05 - 0.28									58I		6.5
35.5											

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
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