Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0036** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 10/10/91
Map Ref.:
Northing/Long.: 6255420 AMG zone: 50
Easting/Lat.: 578560 Datum: AGD84
Locality:
Elevation: 308 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: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Flat
Elem. Type: Valley flat
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Calcic Subnatric Grey Sodosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dg2.43
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Dry; 2-10%, Quartz, coarse fragments; Field pH 5.5 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt change to -

A2e 0.1 - 0.2 m Light grey (10YR7/1-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moderately moist; 0-2%, Quartz, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -

B21t 0.2 - 0.55 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Fine sandy medium clay; Strong grade of structure, 200-500 mm, Columnar; Rough-ped fabric; Dry; Soil matrix is Moderately calcareous; Field pH 7 (Raupach); Clear change to -

B22tk 0.55 - 0.65 m White (10YR8/2-Moist); , 0-0% ; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach); Clear change to -

B23k 0.65 - 0.75 m White (10YR8/2-Moist); Mottles, 5YR68, 20-50% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; 20-50%, Quartz, coarse fragments; Soil matrix is Highly calcareous; Field pH 9 (Raupach); Gradual change to -

B3 0.75 - 1.1 m Light grey (5Y7/2-Moist); Mottles, 2.5YR66, 20-50% , 30-mm, Distinct; Light medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual change to -

C 1.1 - 1.55 m Light grey (5Y7/1-Moist); Substrate influence, 10YR81, 10-20% , 15-30mm, Faint; Mottles, 2.5YR68, 2-10% , 5-15mm, Distinct; Sandy light medium clay; Strong grade of structure; Smooth-ped

fabric;

Moderately moist; 20-50%, Quartz, coarse fragments; Field pH 9 (Raupach);

Morphological Notes

A1	FINE QZ FRAGMENTS
A2e	FINE QZ FRAGMENTS
B21t	PEDS COATED WITH SAND
B23k	FINE QZ & FEW ROCK FRAGS
C	FINE QUARTZ - KOALINISED CLAY

Observation Notes

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0036 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Notes

Pedro evan's trial site on martinup road.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0.2 - 0.55	7.9B 8.7H	20B	3.55E	3.63	0.39	1.04		11B	8.61D	9.45
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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.2 - 0.55	2C								56.5I		7
36.5											
0.2 - 0.55	2C								56.5I		7
36.5											
0.2 - 0.55	2C								56.5I		7
36.5											

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