

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0102 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Heather Percy **Locality:**  
**Date Desc.:** 12/11/91 **Elevation:** 297 metres  
**Map Ref.:** **Rainfall:** No Data  
**Northing/Long.:** 6263300 AMG zone: 50 **Runoff:** No Data  
**Easting/Lat.:** 572440 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 rises 9-30m 1-3% **Pattern Type:** Rises

**Morph. Type:** Mid-slope **Relief:** 15 metres  
**Elem. Type:** Hillslope **Slope Category:** No Data  
**Slope:** 1 % **Aspect:** 90 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

**Soil Classification**

**Australian Soil Classification:** **Mapping Unit:** N/A  
 N/A **Principal Profile Form:** Dg2.11  
**ASC Confidence:** **Great Soil Group:** N/A  
 Confidence level not specified

**Site** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

**Profile**

Ap 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0% ; Loamy coarse sand; Dry; 10-20%, Quartz, coarse fragments; Water repellent; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -  
 B21 0.08 - 0.4 m Light grey (10YR7/1-Moist); Mottles, 7.5YR66, 20-50% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Rough-ped fabric; Dry; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Gradual change to -  
 B22 0.4 - 0.46 m Light grey (10YR7/1-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Mottles, 7.5YR66, 20-50% , 5-15mm, Distinct; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 5 (Raupach); Common, fine (1-2mm) roots;

**Morphological Notes**

Ap F A QZ  
 B21 SAMPLED +MS  
 B22 +MS

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0.08 - 0.4	4.8B 5.6H	11B	1.18H	2.04	0.02	0.52	0.43J		3.76D	
0.08 - 0.4	4.8B	11B	1.18H	2.04	0.02	0.52	0.43J		3.76D	

5.6H

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			%	
0.08 - 0.4 42									54l		4
0.08 - 0.4 42									54l		4

**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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
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