

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0377 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Heather Percy  
**Date Desc.:** 04/08/92  
**Map Ref.:**  
**Northing/Long.:** 6251130 AMG zone: 50  
**Easting/Lat.:** 520340 Datum: AGD84  
**Locality:**  
**Elevation:** 364 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Moderately well 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:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

**Morph. Type:** Upper-slope  
**Elem. Type:** Hillslope  
**Slope:** 4 %  
**Relief:** 60 metres  
**Slope Category:** No Data  
**Aspect:** 270 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

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

**Soil Classification**

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dr2.11  
**ASC Confidence:** Confidence level not specified  
**Great Soil Group:** N/A

**Site** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

**Surface Coarse** No surface coarse fragments; 10-20%, , subangular, Gabbro

**Profile**

A1	0 - 0.2 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 10-20 mm, coarse
B2t	0.2 - 0.6 m	Polyhedral; Wet; Very weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, , fragments; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
B2t	0.2 - 0.6 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Moist; Firm consistence; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
C	0.6 - 1 m	Yellowish brown (10YR5/6-Moist); Mottles, 5YR58, 20-50% , 5-15mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Field pH 6 (Raupach);

**Morphological Notes**

A1 Black ironstone  
 B2t Cutans. Becomes drier down horizon. ESP  
 C Weathered dolerite or gabbro

**Observation Notes**

**Site Notes**

Louden Road

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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 - 0.11	4.96B									
0.11 - 0.21	5.01B									
0.2 - 0.6	5.6B	4B	8.04A	11.54	0.22	1.7			21.5D	

0.2 - 0.6	6.9H											
	5.6B	4B	8.04A	11.54	0.22	1.7						21.5D
0.41 - 0.51	6.9H											
	5.52B											

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 - 0.11								
0.11 - 0.21								
0.2 - 0.6								
0.2 - 0.6								
0.41 - 0.51								

#### Laboratory Analyses Completed for this profile

15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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)