

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0520 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 21/10/92  
**Map Ref.:**  
**Northing/Long.:** 6302390 AMG zone: 50  
**Easting/Lat.:** 534280 Datum: AGD84  
**Locality:**  
**Elevation:** 255 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 plains <9m 1-3% **Pattern Type:** Alluvial plain

**Morph. Type:** Mid-slope  
**Elem. Type:** Hillslope  
**Slope:** 1 %  
**Relief:** 25 metres  
**Slope Category:** No Data  
**Aspect:** 270 degrees

#### Surface Soil Condition Firm

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

#### Soil Classification

**Australian Soil Classification:** N/A  
**ASC Confidence:** Confidence level not specified  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy5.41  
**Great Soil Group:** N/A

**Site** No effective disturbance. Natural

#### Vegetation:

**Surface Coarse** 0-2%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

#### Profile

**A1** 0 - 0.1 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -  
**A21e** 0.1 - 0.2 m Light grey (10YR7/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -  
**A22ec** 0.2 - 0.25 m Light grey (10YR7/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -  
**B21t** 0.25 - 0.45 m Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, Polyhedral; Dry; Strong consistence; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots;

#### Morphological Notes

B21t Dry clay easy to texture (not sodic?)

#### Observation Notes

#### Site Notes

Great Southern Highway

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%
0 - 0.11	5.1B						
0.11 - 0.21	4.84B						
0.25 - 0.45	5.1B	93B	0.29H	4.06	0.08	1.53	0.06J
	5.5H						5.96D
0.25 - 0.45	5.1B	93B	0.29H	4.06	0.08	1.53	0.06J
	5.5H						5.96D
0.36 - 0.46	4.64B						

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 - 0.11											
0.11 - 0.21											
0.25 - 0.45											
0.25 - 0.45											
0.36 - 0.46											

#### Laboratory Analyses Completed for this profile

15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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)