

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 2339 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 21/09/95	<b>Elevation:</b> 270 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6316540 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 582100 Datum: AGD84	<b>Drainage:</b> Poorly drained

#### Geology

<b>ExposureType:</b> Soil pit	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

<b>Morph. Type:</b> Lower-slope	<b>Relief:</b> 10 metres
<b>Elem. Type:</b> Footslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 1 %	<b>Aspect:</b> 270 degrees

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> Dy2.13
	<b>Great Soil Group:</b> N/A

**Site** Cultivation. Rainfed

#### Vegetation:

**Surface Coarse** 10-20%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

#### Profile

A1 0 - 0.08 m structure; Moderately (Raupach); Abrupt,	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Massive grade of moist; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6.5 Smooth change to -
B21 0.08 - 0.5 m clay; Weak Few (2 - 10 %), Ferromanganiferous, (Raupach); Clear	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR44, 10-20% , 15-30mm, Faint; Medium grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Calcareous, Coarse (6 - 20 mm), Soft segregations; Common (10 - 20 %), Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9.5 change to -
B22k 0.5 - 0.8 m Medium clay; Weak %), Calcareous, Medium (2 -6	Light yellowish brown (2.5Y6/4-Moist); Mottles, 5YR46, 2-10% , 5-15mm, Distinct; grade of structure, 20-50 mm, Polyhedral; Dry; Strong consistence; Very many (50 - 100 Very coarse (20 - 60 mm), Soft segregations; Common (10 - 20 %), Ferromanganiferous, mm), Nodules; Soil matrix is Highly calcareous; Field pH 9 (Raupach); Clear change to -
B3 0.8 - 1 m Mottles, 10YR31, Polyhedral;	Light yellowish brown (2.5Y6/4-Moist); Mottles, 10YR72, 10-20% , 5-15mm, Distinct; 10-20% , 0-5mm, Distinct; Medium heavy clay; Moderate grade of structure, 50-100 mm, Moderately moist; Field pH 6 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Soil pit on Nikki and Eric Wallis's property, along 125 Gate Road, South Moulyinning catchment. In a wheat crop next to a saline flat

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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 - 0.08	5.8B 7.1H	9B	3.23A	1.7	0.8	0.67			6.4D	
0 - 0.08	5.8B 7.1H	9B	3.23A	1.7	0.8	0.67			6.4D	
0 - 0.08	5.8B 7.1H	9B	3.23A	1.7	0.8	0.67			6.4D	
0.08 - 0.28	8.5B 9.6H	43B	4.68E	6.28	1.54	4.27		18B	16.77D	23.72
0.08 - 0.28	8.5B 9.6H	43B	4.68E	6.28	1.54	4.27		18B	16.77D	23.72
0.08 - 0.28	8.5B 9.6H	43B	4.68E	6.28	1.54	4.27		18B	16.77D	23.72

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.08 8.5		0.73D						84.5I 7
0 - 0.08 8.5		0.73D						84.5I 7
0 - 0.08 8.5		0.73D						84.5I 7
0.08 - 0.28 34	3C	0.24D						60.5I 5.5
0.08 - 0.28 34	3C	0.24D						60.5I 5.5
0.08 - 0.28 34	3C	0.24D						60.5I 5.5

**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 for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC 15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC 15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

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

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4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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