**Project Name:** Katanning land resources survey

**Project Code:** Observation ID: 1 KLC Site ID: 0413

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.: 20/08/92 Elevation: 288 metres Map Ref.: Rainfall: No Data

Northing/Long.: 6274060 AMG zone: 50 Runoff: No Data 587990 Datum: AGD84 Drainage: Poorly drained Easting/Lat.:

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data **Substrate Material:** No Data

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Alluvial plain Relief. Morph. Type: 5 metres Flat Elem. Type: Plain Slope Category: No Data Slope: 0 % Aspect: 225 degrees

Surface Soil Condition Surface flake, Hardsetting

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

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Epihypersodic Pedal Calcic Calcarosol **Principal Profile Form:** Uf6.13 **ASC Confidence: Great Soil Group:** N/A

Confidence level not specified

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, rounded, Calcrete; No surface coarse

fragments

**Profile** 

A1p 0 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0%; Light medium clay; Moderate grade of structure, 10-

20 mm

Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Soil matrix is Slightly

calcareous; Field

pH 8.5 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -

B21 0.1 - 0.45 m

Rough-ped fabric;

Light grey (2.5Y7/2-Moist); , 0-0%; Light medium clay; Moderate grade of structure;

Moderately moist; Weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm),

2mm) roots;

Soft

segregations; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Few, fine (1-

Gradual change to -

B22k 0.45 - 0.6 m

Rough-ped

Light brownish grey (2.5Y6/3-Moist); , 0-0%; Medium clay; Moderate grade of structure;

mm), Soft

fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6

segregations; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; Soil

matrix is Very

highly calcareous; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -

B23 0.6 - 0.8 m

Rough-ped

Light brownish grey (2.5Y6/3-Moist); , 0-0%; Medium clay; Moderate grade of structure;

(Raupach);

fabric; Moderately moist; Firm consistence; Soil matrix is Highly calcareous; Field pH 9.5

Clear change to -

B24 0.8 - 1 m

Rough-ped

Light brownish grey (2.5Y6/3-Moist); , 0-0%; Medium clay; Moderate grade of structure;

fabric; Moist; Firm consistence; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

**Morphological Notes** 

Water started to enter at 65cm **B24** Much water entered at >80cm

**Observation Notes** 

**Site Notes** 

Nader Rd-cereal/medic pasture rotation. Barley on other areas of this soil along Nader Rd, most probably due to

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Laboratory Test Results:										
Depth	рН	1:5 EC		hangeable	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	Mg	K		(+)/kg			%
0 - 0.1	7.6B 8.7H	23B	12.49E	5.21	0.63	1.83		21B	20.16D	8.71
0 - 0.1	7.6B 8.7H	23B	12.49E	5.21	0.63	1.83		21B	20.16D	8.71
0 - 0.1	7.6B 8.7H	23B	12.49E	5.21	0.63	1.83		21B	20.16D	8.71
0 - 0.11 0.1 - 0.45	7.69B 8.4B 9H	180B	6.29E	8.35	0.45	4.85		20B	19.94D	24.25
0.1 - 0.45	8.4B 9H	180B	6.29E	8.35	0.45	4.85		20B	19.94D	24.25
0.1 - 0.45	8.4B 9H	180B	6.29E	8.35	0.45	4.85		20B	19.94D	24.25
0.16 - 0.26 0.36 - 0.46	8.27B 8.38B									
0.45 - 0.6	8.5B 9.1H	260B	4.13E	9.69	0.58	6.64		21B	21.04D	31.62
0.45 - 0.6	8.5B 9.1H	260B	4.13E	9.69	0.58	6.64		21B	21.04D	31.62
0.45 - 0.6	8.5B 9.1H	260B	4.13E	9.69	0.58	6.64		21B	21.04D	31.62
0.6 - 0.8	8.6B 9H	300B	3.68E	10.67	0.63	7.62		21B	22.6D	36.29
0.6 - 0.8	8.6B 9H	300B	3.68E	10.67	0.63	7.62		21B	22.6D	36.29
0.6 - 0.8	8.6B 9H	300B	3.68E	10.67	0.63	7.62		21B	22.6D	36.29
0.8 - 1	8.5B 8.9H	380B	3.06E	10.69	0.67	7.59		20B	22.01D	37.95
0.8 - 1	8.5B 8.9H	380B	3.06E	10.69	0.67	7.59		20B	22.01D	37.95
0.8 - 1	8.5B 8.9H	380B	3.06E	10.69	0.67	7.59		20B	22.01D	37.95
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tot K			icle Size An	alysis Silt
m	%	Clay %	mg/kg	%	%	%	•		%	
0 - 0.1	<2C	0.9D		130B	0.08	3E				8.7
46.5 0 - 0.1	<2C	0.9D		130B	0.08	3E				8.7
46.5 0 - 0.1	<2C	0.9D		130B	0.08					8.7
46.5 0 - 0.11 0.1 - 0.45	7C	0.29D		45B	0.02	1F				8.6
54 0.1 - 0.45	7C	0.29D		45B	0.02					8.6
54 0.1 - 0.45	7C	0.29D		45B	0.02					8.6
54 0.16 - 0.26	70	0.230		400	0.02					0.0
0.36 - 0.46 0.45 - 0.6	8C	0.22D		37B	0.01	7E				7.6
55.7 0.45 - 0.6	8C	0.22D		37B	0.01					7.6
55.7										

0.45 - 0.6 55.7	8C	0.22D	37B	0.017E	7.6
0.6 - 0.8 60	5C	0.17D	40B	0.015E	7

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0.6 - 0.8 60	5C	0.17D	40B	0.015E			7
0.6 - 0.8 60	5C	0.17D	40B	0.015E			7
0.8 - 1 60.8	30	0.15D	33B	0.012E			6.5
0.8 - 1 60.8	30	0.15D	33B	0.012E			6.5
0.8 - 1 60.8	30	0.15D	33B	0.012E			6.5

## **Laboratory Analyses Completed for this profile**

15_NR_BSa 15_NR_CMR 15C1_CA pretreatment for	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_K soluble salts	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 15L1_a Sum of Cations	Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a 15N1_b 19B_NR 3_NR 4_NR	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded
4B1 6A1_UC 7A1 9A3 9H1	pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Anion storage capacity
P10_1m2m P10_20_75 P10_75_106 P10_gt2m P10_NR_C	1000 to 2000u particle size analysis, (method not recorded) 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded) > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded
P10_NR_Saa P10_NR_Z P10106_150 P10150_180 P10180_300	Sand (%) - Not recorded arithmetic difference, auto generated Silt (%) - Not recorded 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded)
P10300_600 P106001000	300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded)