

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0489 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	28/02/96	Elevation:	325 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6292750 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	623600 Datum: AGD84	Drainage:	Rapidly drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	2 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	270 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Ferric-Petroferric Bleached-Orthic Tenosol		Principal Profile Form:	Uc2.12
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry; Loose
		consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear, Smooth change to -
A2e	0.1 - 0.7 m	Light grey (10YR7/1-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Sandy (grains
		prominent) fabric; Dry; Loose consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Gradual,
		Smooth change to -
B1	0.7 - 0.95 m	Pale yellow (2.5Y7/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains
		prominent) fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, ,
		coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21wc	0.95 - 1.05 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Single grain grade of structure; Sandy
		(grains prominent) fabric; Moderately moist; Loose consistence; 20-50%, fine gravelly, 2-6mm,
		subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments;
		10-20%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Few, very fine
		(0-1mm) roots; Abrupt, Irregular change to -
B22cm	1.05 - 1.65 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Sand; Massive grade of structure; Dry;

Morphological Notes

A2e	cpH 4000 = 51
B21wc	Fine to medium sand.

Observation Notes

Site Notes

Project Name: Nyabing Kukerin land resources survey
 Project Code: NYA Site ID: 0489
 Agency Name: Agriculture Western Australia

Observation 1

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	5.6B 6.5H 6B 6.9H 5.6B 6.4H	3B 4B	0.93A	0.18	0.05	0.03			1.19D	
0 - 0.1	5.6B 6.5H 6B 6.9H 5.6B 6.4H	3B 4B	0.93A	0.18	0.05	0.03			1.19D	
0 - 0.1	5.6B 6.5H 6B 6.9H 5.6B 6.4H	3B 4B	0.93A	0.18	0.05	0.03			1.19D	
0 - 0.1	5.6B 6.5H 6B 6.9H 5.6B 6.4H	3B 4B	0.93A	0.18	0.05	0.03			1.19D	
0 - 0.1	5.6B 6.5H 6B 6.9H 5.6B 6.4H	3B 4B	0.93A	0.18	0.05	0.03			1.19D	
0.1 - 0.4	5B 6.2H	1B	1.12H	<2	<0.02	<0.02			2.14D	
0.1 - 0.4	5B 6.2H	1B	1.12H	<2	<0.02	<0.02			2.14D	
0.15 - 0.25	5.1B 6.1H	1B								
0.4 - 0.7	4.8B 5.6H	1B	0.04H	<2	<0.02	<0.02			1.06D	
0.4 - 0.7	4.8B 5.6H	1B	0.04H	<2	<0.02	<0.02			1.06D	
0.4 - 0.5	5.1B 6H	1B								
0.7 - 0.95	4.8B 5.7H	1B	0.04K	<2	<0.02	<0.02	0.03J		1.06D	
0.7 - 0.95	4.8B 5.7H	1B	0.04K	<2	<0.02	<0.02	0.03J		1.06D	
0.95 - 1.05	4.6B 5.8H	1B	0.22K	0.11	0.1	0.04	0.16J		0.47D	
0.95 - 1.05	4.6B 5.8H	1B	0.22K	0.11	0.1	0.04	0.16J		0.47D	

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0489 **Observation** 1
Agency Name: Agriculture Western Australia

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 - 0.1 0.3		0.48D		45B	0.025E			1.6
0 - 0.1 0.3		0.42D 0.48D		50B 45B	0.025E			1.6
0 - 0.1 0.3		0.42D 0.48D		50B 45B	0.025E			1.6
0 - 0.1 0.3		0.42D 0.48D		50B 45B	0.025E			1.6
0 - 0.1 0.3		0.42D 0.48D		50B 45B	0.025E			1.6
0.1 - 0.4 0.1		0.1D		17B				1.4
0.1 - 0.4 0.1		0.1D		17B				1.4
0.15 - 0.25 0.4 - 0.7 0.1		0.06D		19B				1.7
0.4 - 0.7 0.1		0.06D		19B				1.7
0.4 - 0.5 0.7 - 0.95 0.3		0.05D		22B				1.5
0.7 - 0.95 0.3		0.05D		22B				1.5
0.95 - 1.05 3.7		0.15D		25B				2.3
0.95 - 1.05 3.7		0.15D		25B				2.3

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15E1_AL	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA salts	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
	Exchangeable bases, CEC and AEC 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
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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0489 **Observation** 1
Agency Name: Agriculture Western Australia

6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)