Project Name: Project Code: Agency Name:	Nyabing Kukerin land resor NYA Site ID: Agriculture Western Austra	0649 O	bservation ID:	1					
Date Desc.: Map Ref.: Northing/Long.:	Melanie Roberts 17/10/96 6298000 AMG zone: 50 648540 Datum: AGD84	Locality: Elevation: Rainfall: Runoff: Drainage:	330 metres No Data No Data Moderately well di	rained					
<u>Geology</u> ExposureType:	Soil pit No Data	Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data							
Landform Rel/Slope Class:	Gently undulating rises 9-30m 1-3	%	Pattern Type:	Rises					
Elem. Type:	Mid-slope Hillslope 2 % Idition Loose	Relief: Slope Category: Aspect:	15 metres No Data 0 degrees						
	; (sheet) (rill) (gully)								
ASC Confidence: All necessary analy	ssification: ralithic Hypercalcic Calcarosol rtical data are available. Complete clearing. Pasture, nat	Princi Great	ng Unit: pal Profile Form: Soil Group: ivated at some stag	N/A N/A N/A					
Vegetation Surface Coarse I fragments	Fragments 2-10%, medium g	gravelly, 6-20mm, su	brounded, Calcrete	; No surface coarse					
Profile Morpholo A1p 0 - 0.1 m consistence;	Profile Morphology A1p 0 - 0.1 m Reddish brown (5YR4/4-Moist); , 0-0% ; Clay loam; Massive grade of structure; Dry; Firm								
Abrupt, Smooth	Soil matrix is Very highly ca change to -	lcareous; Field pH 9	(Raupach); Few, fin	ne (1-2mm) roots;					
B21 0.1 - 0.3 m consistence; Soil	Red (2.5YR4/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Dry; Weak matrix is Highly calcareous; Field pH 9 (Raupach); Few, very fine (0-1mm) roots; Abru								
Smooth change	to -	Field pri 9 (Raupaci	n), Few, very line (0	- mm) tools, Abrupt,					
B22k 0.3 - 0.6 m Very firm									
segregations; Soil Irregular	matrix is Highly calcareous;	consistence; Very many (50 - 100 %), Calcareous, Very coarse (20 - 60 mm), Soft matrix is Highly calcareous; Field pH 9 (Raupach); Few, very fine (0-1mm) roots; Clear,							
Ck 0.6 - 0.8 m grade of structure,	-	change to - Brown (10YR5/3-Moist); Mottles, 5YR56, 10-20% , 30-mm, Distinct; Light clay; Weak							
100 %),	10-20 mm, Polyhedral; Rou	10-20 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; Very many (50 -							
Calcareous, Coarse (Calcareous, Very coarse (20 - 60 mm), Soft segregations; Common (10 - 20 %),							
Tongued change		- 20 mm), Concretions; Soil matrix is Highly calcareous; Field pH 9 (Raupach); Abrupt, to -							
R 0.8-1 m	Rock	Rock							
<u>Morphological N</u> A1p	l otes Clay loam to light clay.								

A1pClay loam to light clay.CkWeathered rock.RHard dolerite rock - calcareous.

Observation Notes

<u>Site Notes</u> Soil pit in Minelup/Chinocup Catchment. Calcareous loamy earth or possibly a red/brown non-cracking clay.

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Project Code:	NYA	Site ID:	0649	Observation	1
Agency Name:	Agriculture Wes				

Laboratory Test Results:

Depth	рН	1:5 EC			e Cations K	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	ĸ	Na Acidity Cmol (+)/kg			%
0 - 0.1	7.9B 8.6H 7.8B 8.5H	19B 21B	21.65E	7.08	2.47	0.39	30B	31.59D	1.30
0 - 0.1	7.9B 8.6H 7.8B 8.5H	19B 21B	21.65E	7.08	2.47	0.39	30B	31.59D	1.30
0 - 0.1	7.9B 8.6H 7.8B 8.5H	19B 21B	21.65E	7.08	2.47	0.39	30B	31.59D	1.30
0 - 0.1	7.9B 8.6H 7.8B 8.5H	19B 21B	21.65E	7.08	2.47	0.39	30B	31.59D	1.30
0.1 - 0.3	8.1B 8.9H	20B	20.62E	11.91	1.33	1.03	36B	34.89D	2.86
0.1 - 0.3	8.1B 8.9H	20B	20.62E	11.91	1.33	1.03	36B	34.89D	2.86
0.3 - 0.6	8.2B 9.4H	27B	11.61E	10.95	1.02	2.21	25B	25.79D	8.84
0.3 - 0.6	8.2B 9.4H	27B	11.61E	10.95	1.02	2.21	25B	25.79D	8.84
0.6 - 0.8	8.7B 10H	43B	4.78E	10.22	0.68	5.9	20B	21.58D	29.50
0.6 - 0.8	8.7B 10H	43B	4.78E	10.22	0.68	5.9	20B	21.58D	29.50

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	F GV	Particle CS	Size FS	Analysis Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 44.4	4C	0.99D		99B	0.101E						11.9
0 - 0.1 44.4	4C	1.04D 0.99D		120B 99B	0.101E						11.9
0 - 0.1 44.4	4C	1.04D 0.99D		120B 99B	0.101E						11.9
0 - 0.1 44.4	4C	1.04D 0.99D		120B 99B	0.101E						11.9
0.1 - 0.3 57.5	12C	1.04D 0.43D		120B 51B							14.5
0.1 - 0.3 57.5	12C	0.43D		51B							14.5
0.3 - 0.6 47.9	34C	0.23D		35B							10.8
0.3 - 0.6 47.9	34C	0.23D		35B							10.8
0.6 - 0.8 33.2	14C	0.1D		20B							11.9
0.6 - 0.8	14C	0.1D		20B							11.9

33.2

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available

Nyabing Kukerin land resourcs survey NYA Site ID: 0649 Agriculture Western Australia	Observation	1				
	c 1M ammonium chlo	oride at pH 8.5,				
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						
xchangeable bases and CEC - alcoholic 1M ammon	ium chloride at pH 8	.5, pretreatment for				
xchangeable bases and CEC - alcoholic 1M ammon	ium chloride at pH 8	.5, pretreatment for				
	P) - Auto calculated	from available using				
xchangeable sodium percentage (ESP) - Auto calcu xchangeable sodium percentage (ESP) - Auto calcu icarbonate-extractable potassium (not recorded) alcium Carbonate (CaCO3) - Not recorded lectrical conductivity or soluble salts - Not recorded H of soil - Not recorded H of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black otal nitrogen - semimicro Kjeldahl, steam distillation otal Phosphorus (ppm) - semimicro kjeldahl, automa icarbonate-extractable phosphorus (not recorded) nion storage capacity 000 to 2000u particle size analysis, (method not recorded 5 to 106u particle size analysis, (method not recorded 2mm particle size analysis, (method not recorded) slay (%) - Not recorded and (%) - Not recorded 0 to 150u particle size analysis, (method not recorded 0 to 300u particle size analysis, (method not recorded 8 to 300u particle size analysis, (method not recorded 0 to 600u particle size analysis, (method not recorded	lated from available method ated colour orded) i) enerated led) led) led) led)					
	NYA Site ID: 0649 Agriculture Western Australia Achangeable bases (Ca/Mg ratio) - Not recorded Achangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic bluble salts EC - alcoholic 1M ammonium chloride at pH 8.5, pro- Achangeable bases and CEC - alcoholic 1M ammon Achangeable bases Base saturation percentage (BS and measured clay Achangeable sodium percentage (ESP) - Auto calcul Achangeable sodium percentage (ESP) - Aut	NYA Site ID: 0649 Observation Agriculture Western Australia kchangeable bases (Ca/Mg ratio) - Not recorded kchangeable bases (Ca/2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chlo buble salts EC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for solubl kchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8 kchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8 kchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8 kchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8 kchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8 kchangeable bases Base saturation percentage (BSP) - Auto calculated nd measured clay kchangeable sodium percentage (ESP) - Auto calculated from available kchangeable sodium percentage (ESP) - Auto calculated from available kchangeable sodium percentage (ESP) - Auto calculated from available carbonate-extractable potassium (not recorded) alcium Carbonate (CaCO3) - Not recorded ectrical conductivity or soluble salts - Not recorded 1 of 1:5 soil/0.01M calcium chloride extract - direct rganic carbon (%) - Uncorrected Walkley and Black method btal nitrogen - semimicro Kjeldahl, steam distillation btal Phosphorus (ppm) - semimicro kjeldahl, automated colour carbonate-extractable phosphorus (not recorded) nion storage capacity 000 to 2000u particle size analysis, (method not recorded) 0 to 75u particle size analysis, (method not recorded) 2mm particle size analysis, (method not recorded) 2mm particle size analysis, (method not recorded) and (%) - Not recorded				